WETLAND DELINEATION REPORT

Wolf Hollow Town of Windsor, Wisconsin

Prepared For: Don Esposito N27 W24075 Paul Court, Suite 200 Pewaukee, WI 53702

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> > Prepared On: August 26, 2013

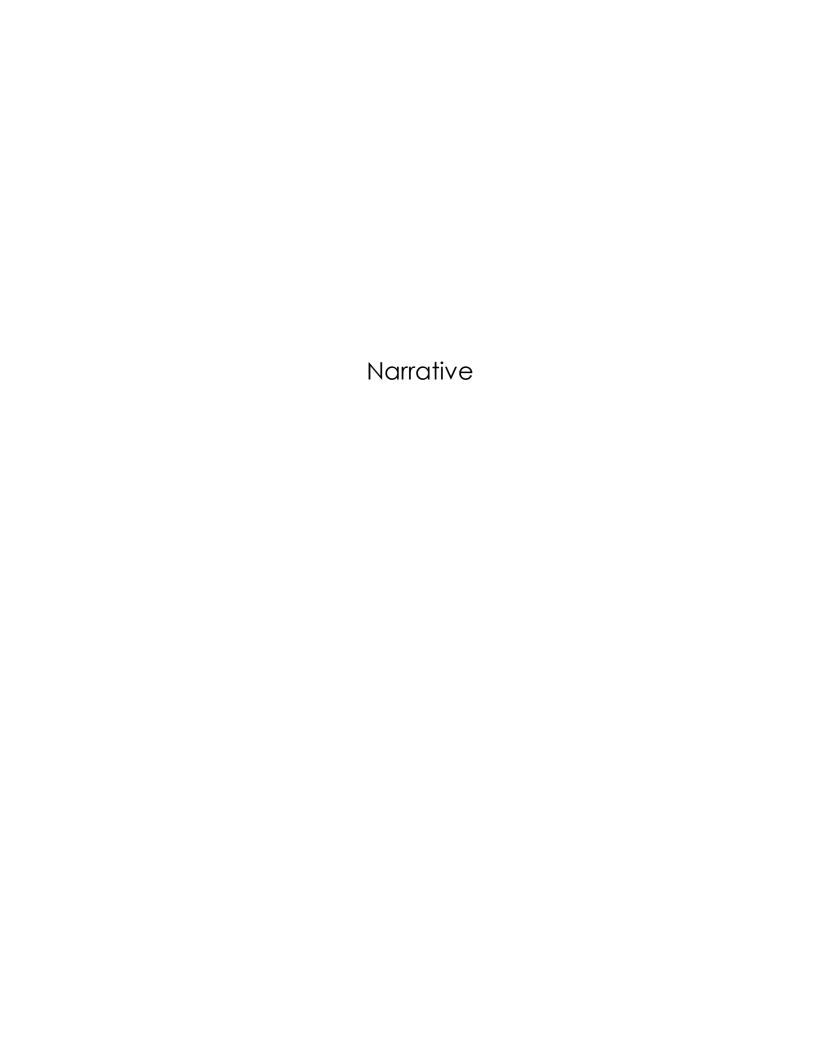
Project #130162

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1.1 Wetland Delineator Qualifications

Neil Pfaff holds two Bachelor of Science degrees: One from the University of Wisconsin – Stevens Point in Water Resources with a Major in Watershed Administration, as well as double minors in Soil Science and Geographic Information Systems and Spatial Analysis. Mr. Pfaff also holds a bachelors of Science degree from the University of Wisconsin – Platteville in Environmental Engineering. Mr. Pfaff holds the following certifications and/or completed the following courses that prepared him for performing wetland determinations and delineations in Wisconsin using the Army Corps of Engineers 1987 Manual Method:

- Wisconsin Certified Soil Tester (CST # 1041792)
- Natural Resources 405 Plant Identification (July Sept. 2005, UW Stevens Point)
- Basic Wetland Delineation Training(August 2013, Sturgeon Bay, WI UW La Crosse Continuing Education/Extension)
- Engineer In Training
- Hydrologist In Training American Institute of Hydrology

1.2 Introduction

On August 25th, 2013, Neil Pfaff of Vierbicher Associates Inc. performed a wetland determination and delineation within the wolf Hollow Plat located in the Town of Windsor, Dane County, Wisconsin (Figures 1 & 2). Neumann Companies Inc. is considering development of the platted land for single family residential development. The Wisconsin Department of Natural Resources requested a wetland determination and delineation prior to issuing a Notice of Intent to grade the land.

The project area primarily consists of native vegetation over a previously graded landscape. The hydrology and soil conditions have been altered due to major land grading and introduction of artificial concentrated flows from stormwater facilities and storm sewer outfalls. Large soil stockpiles existing onsite as a result of the grading. Historic aerial photography suggests wetlands did not exist to the extent they due in present day.

1.3 Methods

The following reference materials were review prior to performing field work:

- a. National Cooperative Soil Survey, Web Soil Survey
- b. Wisconsin Wetland Inventory maps (WDNR Surface Water Data Viewer Wetlands Theme).
- c. U.S.G.S. 7.5 minute topographical map, 7.5 min. Quadrangle.
- d. Natural Resource Conservation Service, hydric soil list for Dane County.

The wetland determinations and the delineations followed the procedures for the Routine Method set forth in The Corps of Engineers Wetlands Delineation Manual (US Army Corps of Engineers 1987) and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northeast and Northcentral Region. They also followed the methods set forth in the Basic Guide to Wisconsin Wetlands and their Boundaries (WI Dept. of Administration 1995).



Method of Data Collection

Vegetation, hydrology and soil information were gathered in sample plots and recorded on USACE data sheets. At each plot, a plot center was established and the presence or absence of normal circumstances or disturbances was noted. Next, herbaceous vegetation was sampled within a circular 5-foot radius plot. After that, vines, shrubs and trees were sampled within a circular 30-foot radius plot, centered on the herbaceous plot. Next, a 20-inch-deep soil pit was dug at the plot center. The presence or absence of hydrology indicators in the soil pit and within the surrounding 30-foot circular plot was noted. Finally, the soil profile in the pit was examined and described. A determination was then made as to whether the site was wetland or upland.

Location of Transects

Sample pots were located inside of areas that appeared to be wetlands. If the sample plot data suggested that the location was inside of a wetland, a second plot was placed in an upslope location with a different plan community. If data collected at this plot suggested that the location was inside of the upland, no further plots were sampled. Otherwise, the process was repeated. A total of 12 plots were sampled, 6 inside of wetlands and 6 on the uplands (Figure 2).

Procedure for Location Wetland Boundaries

The wetland boundaries were located by observing increases in elevation and the appearance of healthy, dominated populations of upland plants like Kentucky Blue Grass (*Poa palustris – FACU*), Canadian Goldenrod (*Solidago Canadensis – FACU*, and queen anne's lace (*Daucus carota – UPL*), as one moved upslope, away from the wetland. The wetland boundaries were recorded via GPS.

1.4 Results and Discussion

Regional Geology & Soils

The geology of the surrounding region consists of glacial deposits, primarily outwash plains and ground moraines. The land surfaces are gently sloping in the higher areas, which are ground moraine, and nearly level in low-lying areas, which are often outwash plains. Soils that formed in ground moraines have silt loam and silty clay loam surface layers underlain by sandy loam material. Soils that formed in glacial outwash have silt loam and silty clay loam surface layers underlain by sand and gravel.

Wetlands

Overview of Wetlands & Wetland Boundary Characteristics

The wetland extents are primarily limited to flat, grassy areas in a channelized drainage ditch. The wetland is narrow (10-20 feet) for much of its length; however there are spots where the wetland widened in the south portion of the project area (Plots 1A, 2A, 3A, 4A, 5A & 6A).

Wetland Vegetation

The wetland was open and grassy. The wetland was dominated by Broad leaf Cattails (Typha latifolia -OBL) and reed canary grass (Phalaris arundinacea – FACW). Overall the vegetation present is typically associated with low quality, invasive plants, common in artificially induced wetland areas.



Wetland Hydrology

The primary sources of water to the wetland are surface water runoff. Total precipitation for the three month period (June – August) preceding the fieldwork was 16.39 inches (Madison Dane Regional Airport, WI). This was approximately 4 inches (25%) above the 30 year (1971-2000) average for this period of 12.31 inches; therefore, conditions were wetter than average when the field data was collected on August 25, 2013.

Wetland Soils

The United States Department of Agriculture – Natural Resources Conservation Service mapped soil of the wetland as Radford silt loam (RaA) which range from 0 to 3 percent slopes with a drainage classification of "somewhat poorly drained".

Wisconsin Wetland Inventory Map

The Wisconsin Wetland inventory map indicate the presence of E1K which is in the wetland class as emergent/wet meadow, with subclass "persistant". This wetland has a hydrologic modifier of "Wet soil, Palustirine".

Uplands

Upland consisted of primarily open landscape with common prairie grasses with some small saplings (Plots 1B, 2B, 3B, 4B, 5B, & 6B).

Upland Vegetation

The upland consisted primarily of Kentucky bluegrass (*Poa pratensis* – FACU), Canada goldenrod (*Solidago Canadensis* – FACU) and queen anne's lace (*Daucus carota* – UPL).

Upland Hydrology

None of the upland sample pots showed hydrology indicators. All areas of the upland were well-elevated above the wetlands.

Upland Soils

The Natural Resouce Conseration Service – mapped soils of the uplands primarily consist of Plano silt loam ranging from 2 to 12 percent and Dodge silt loam ranging from 2 to 12 percent slopes. Please refer to Figure 3 for more information.

No hydric indicators were noted in any of the upland sample plots.

1.5 Conclusion

The project area consists of a previously graded landscape. The hydrology and soil conditions have been altered due to major land grading. Large soil stockpiles exist onsite as a result of the grading.

Wetland delineations are based upon the presence of hydrology, hydric soils and wetland plants. A final determination whether an area is an artificial wetland is made by the regulatory agencies. Historical evidence from aerial photography and a past wetland determination and delineation suggest the recent land usage and construction of a temporary detention basin has caused the identified wetlands to emerge. The temporary stormwater pond constructed as part of the Wolf Hollow development



changed the drainage / moisture patterns within the subject area by increasing the amount of stormwater runoff discharged (increased impervious surfaces), concentrating it within the graded drainage ways, and increasing the duration of stormwater discharge (peak attenuation causing the area to be 'wetter' for a longer period of time). These factors would indicate the wetlands indentified should be considered artificial in nature. Therefore, the wetland present may not be regulated under NR 103.

The wetland boundary marked in the field is the best estimate of the location of the boundary based on the available vegetation, hydrology, and soil evidence on August 25th of 2013. Wetland boundaries can change overtime with changes in vegetation, precipitation, or regional hydrology. The US Army Corps of Engineers and/or the Wisconsin Department of Natural Resources have authority to make the final decision regarding the wetland boundary. Personnel from these agencies may adjust the boundary map upon field inspection. The client is advised to delay any development of the property until receiving a formal opinion from regulatory authorities regarding the presence of jurisdictional wetlands on the property.

1.6 References

Hurt, G.W. & Vasilas, L.M. 2010. <u>Field indicator of Hydric Soils in the United States: A Guide for Identifying and Delineating Hydric Soils, Version 7.0</u>. Natural Resource Conservation Service, United States Department of Agriculture.

US Army Corps of Engineers, State of Wisconsin-Nation Wetland Plant List Final Draft Ratings, Cold Regions Research & Engineering Laboratory (CRREL).

US Army Corps of Engineers, Waterways Experiment Station. 1987. Corps of Engineers Wetlands Delineation Manual. Wetlands Research Program Technical Report Y-87-1.

Wisconsin Department of Administration, Coastal Management Program. 1995. <u>Basic</u> Guide to Wisconsin's Wetlands and their Boundaries.







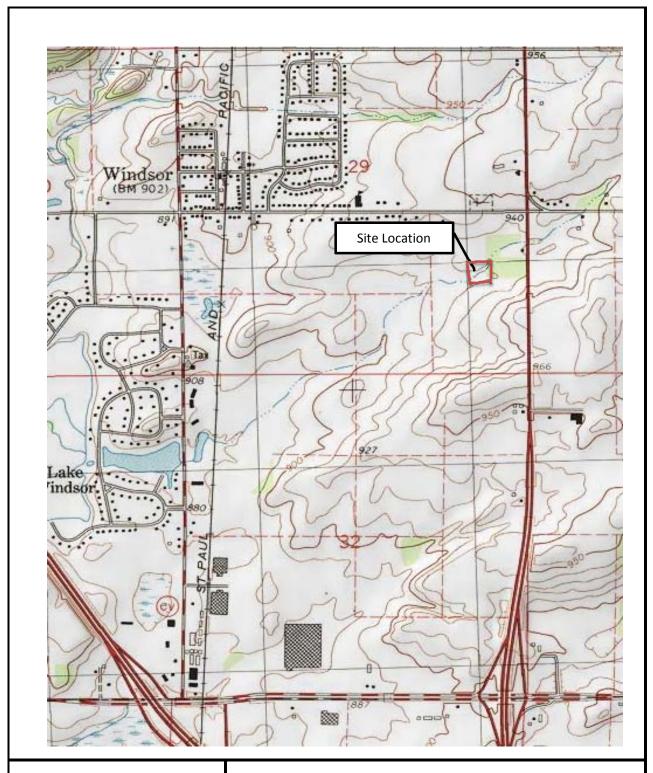


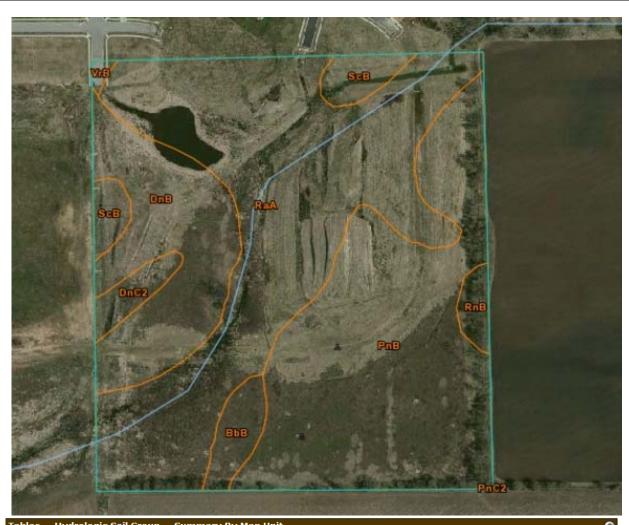




Figure 1 - Site Location on USGS Quadrangle Map

Project Name: Wolf Hollow Project Location: Town of Windsor, Wisconsin Figure 2: Project Area, Wetlands Boundaries & Sample Plots





${f Tables-Hydrologic\ Soil\ Group-Summary\ By\ Map\ Unit}$ Summary by Map Unit — Dane County, Wisconsin (WI025) 8 Map unit symbol Map unit name Rating Acres in AOI Percent of AOI BbB Batavia silt loam, gravelly substratum, 2 to 6 percent slopes В 1.0 2.5% DnB Dodge silt loam, 2 to 6 percent slopes В 5.9 15.0% DnC2 Dodge silt loam, 6 to 12 percent slopes, eroded В 0.7 1.8% В 13.7 34.7% PnB Plano silt loam, 2 to 6 percent slopes PnC2 Plano silt loam, 6 to 12 percent slopes, eroded В 0.0 0.0% RaA Radford silt loam, 0 to 3 percent slopes В 16.2 41.1% RnB Ringwood silt loam, 2 to 6 percent slopes В 0.5 1.3% ScB St. Charles silt loam, 2 to 6 percent slopes В 1.3 3.2% В VrB Virgil silt loam, 1 to 4 percent slopes 0.1 0.3% **Totals for Area of Interest** 39.4 100.0%





Figure 3 - USDA; NRCS Soils Map

Project Name: Wolf Hollow Project Location: Town of Windsor, Wisconsin Figure 4: WDNR Surface Water Data Viewer Wetland Theme

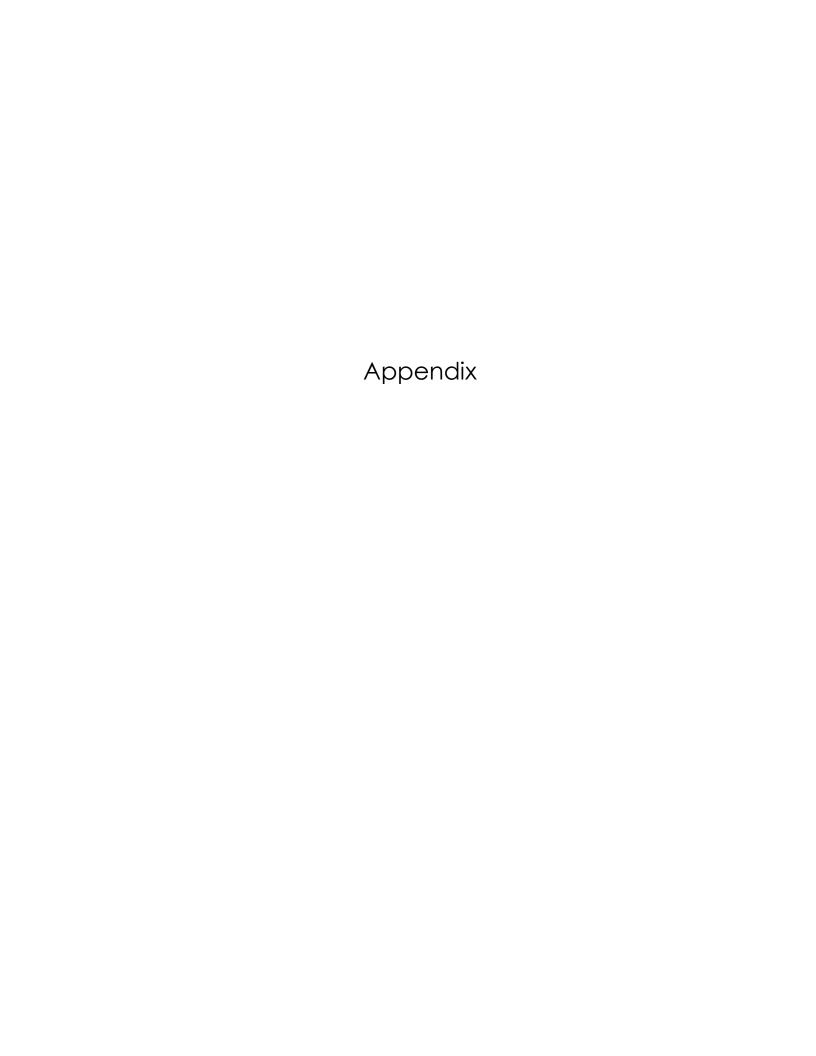






Figure 4: WDNR Surface Water Data Viewer Wetland Map Project Name: Wolf Hollow

Project Location: Town of Windsor, Wisconsin







Upland Plot 1B



Typical wetland boundary, defined by wetland plants, hydrology and hydric soils



Typical wetland boundary, defined by Wetland plants, hydrology and hydric soils



Typical upland plot across the site



Drainage swale, wetland boundary defined by wetland plants, hydrology and hydric soils (near plot 3A & 3B)



Typical upland Plot



Project/Site: Wolf Hollow Plat	City	//County:Town of Windso	r/Dane County _S	Sampling Date: 08/2	25/13
Applicant/Owner: Neumann Co	ompanies, Inc.				
Investigator(s): Neil J. Pfaff	Se		<u> </u>		
	Toe of Slope Local): <1%
	Lat: 43° 12' 44.58" N				
Soil Map Unit Name: Radford Sil	t Loam	Long		ion: None	
	on the site typical for this time of year?				
	on the site typical for this time of year? _, or Hydrology <u>Yes</u> significantly dis			sent? Yes	No X
	- , , , , ,				NO A
-	_, or Hydrology <u>Yes</u> naturally proble - Attach site map showing sa		xplain any answers ns, transects, i		res. etc.
Hydrophytic Vegetation Present?		Is the Sampled Area within a Wetland?	Yes X	No	
Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No			·	
	ocedures here or in a separate report.)	If yes, optional Wetland	Site ID.		
Regional Airport). This was a Therefore, climate/hydrolog	-month period (June-August) pre 4 inches (25%) above the 30-yea gic conditions were typical. (NR d. Therefore, normal soils and hy	ar (1971-2000) average CS - WETS Table).	for this period o		
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicato	rs (minimum of two r	equired)
Primary Indicators (minimum of or	ne is required; check all that apply)		Surface Soil Cr		
Surface Water (A1)	X Water-Stained Lea		Drainage Patte		
High Water Table (A2)	Aquatic Fauna (B1		Moss Trim Line		
X Saturation (A3)	Marl Deposits (B15		Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide (Crayfish Burrov		(00)
Sediment Deposits (B2)				ole on Aerial Imagery	/ (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduc		Stunted or Stre X Geomorphic Po	essed Plants (D1)	
Algal Mat of Crust (B4) Iron Deposits (B5)	Thin Muck Surface		Shallow Aquita		
Inundation Visible on Aerial Ir			Microtopograph		
Sparsely Vegetated Concave		contants)	X FAC-Neutral Te	est (D5)	
Field Observations:	- 54.1455 (25)		<u> </u>	301 (20)	
Surface Water Present? Yes	es No X Depth (inches): _				
	es No Depth (inches):				
Saturation Present? Ye	es X No Depth (inches):		ydrology Present?	Yes X No	
(includes capillary fringe) Describe Recorded Data (stream	gauge, monitoring well, aerial photos, p	l previous inspections), if avai	lable:		
Aerial Photos - See Attache	ed				
Remarks:					
Storm Drainage system wh	ich feeds pond with culvert outl	et.			

VEGETATION – Use scientific names of plants.					Sam	ıpling Poi	nt:1	4
<u>Tree Stratum</u> (Plot size: <u>2827 (3.14*30^2)</u>)	Absolute % Cover	Dominant Species?		Dominance Tes	t worksheet	:		
1				Number of Domin		5 D:	1	(A)
2				Total Number of	Dominant			
3				Species Across A			1	(B)
4				Percent of Domir			1000/	
5				That Are OBL, F	ACW, or FAC	D:	100%	(A/B)
6				Prevalence Inde	ex workshee	et:		
7				Total % Cov			tiply by:	_
	0	= Total Co	ver	OBL species	100		20	_
Sapling/Shrub Stratum (Plot size:2,827 (3.14*30^2))				FACW species		x 2 = _		_
1				-				
2				FACU species UPL species				_
3				Column Totals:				(B)
4						` ' -		_ 、 /
5				Prevalence	Index = B/A	<i>\</i> =	1.09	
6				Hydrophytic Ve	_			
7				1 - Rapid Te 2 - Dominan	st for Hydror	hytic Ve	getation	
	0	= Total Co	ver	2 - Dominan 3 - Prevalen	ce Test is >5	00% 3.0¹		
<u>Herb Stratum</u> (Plot size: 78.5 (3.14*5^2)				4 - Morpholo			rovide sur	portina
1. Typha latifolia	100	X	OBL	data in R	emarks or or	n a separa	ate sheet)	
2. Phalaris arundinacea	10		FACW	Problematic	Hydrophytic	Vegetation	on¹ (Expla	in)
3				¹ Indicators of hyd				must
4				be present, unles	ss disturbed	or proble	matic.	
5				Definitions of V	egetation S	rata:		
6				Tree – Woody pl	ants 3 in. (7.	6 cm) or	more in di	ameter
7				at breast height ((DBH), regar	dless of h	neight.	
8				Sapling/shrub – and greater than				ВН
10				Herb – All herba				rdlees
11				of size, and wood				iruiess
12				Woody vines –	All woody vir	es greate	er than 3.2	28 ft in
	110	= Total Co	ver	height.				
Woody Vine Stratum (Plot size: 2,827 (3.14*30^2)								
1								
2								
3				Hydrophytic				
4				Vegetation Present?	Yes_X	, No.		
	0	= Total Co	ver	Present?	162	NO		
Remarks: (Include photo numbers here or on a separate	sheet.)							
The plot was in an open, almost entire monoci	ulture of T	ypha Lati	folia.					

SOIL Sampling Point: 1A

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Tucation: PL=Pone Lining, M=Matrix, MGIatria, MGIatria, MS=Masked Sand Grains. Tucation: PL=Pone Lining, MS=Masked Sand Grains. Tu	Depth (inches)	Matrix Color (moist)	%	Color (moist)	<u>k Feature</u> %	s Type ¹	Loc ²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thick Dark Muck A(10) (LRR k, L) Indicators for Problematic Hydric Soils*: Thick Dark Sufface (A1) Shadk Histic (A3) Thin Dark Sufface (S9) (LRR k, L)									remano
Specification Specificatio	-								
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RL) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (F6) Polyvalue Below Surface (F7) (MLRA 144A, 145, Sandy Mucky Mineral (S1) Polyvalue Below Surface (F7) Polyval	12-20	10 YR 5/6	95	10 YR 4/6	5		PL	SiC	
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149 Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark									
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149 Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R LA 149 Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R LA 149 Histic Epipedon (A2) MLRA 149B) S cm Mucky Peat or Peat (S3) (LRR K, L, R LA 149B)									
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RL) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (A12) Polyvalue Below Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Pepleted Dark Surface (F7) Medicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. MIRA 149B									
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RL) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (F6) Polyvalue Below Surface (F7) (MLRA 144A, 145, Sandy Mucky Mineral (S1) Polyvalue Below Surface (F7) Polyval	0-0		lation DM	-Dadward Matrix MG				21	-Dans Lining Maddalin
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B)			ietion, RM	=keaucea Matrix, MS	=iviasked	Sand Gr	ains.		
Type: Hydric Soil Present? Yes No	Histic Ep Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sui	pipedon (A2) stic (A3) stic (A3) stic (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) ducky Mineral (S1) sleyed Matrix (S4) dedox (S5) Matrix (S6) rface (S7) (LRR R, M	/ILRA 149I	MLRA 149B) Thin Dark Surfa Loamy Mucky M Loamy Gleyed I Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depress B)	ce (S9) (I lineral (F Matrix (F2 (F3) face (F6) Surface (F ons (F8)	LRR R, Mi 1) (LRR K)	.RA 149B)	Coast Prair 5 cm Mucky Dark Surfac Polyvalue E Thin Dark S Iron-Manga Piedmont F Mesic Spool Red Parent Very Shallo Other (Expl	rie Redox (A16) (LRR K, L, R) by Peat or Peat (S3) (LRR K, L, R) by Peat or Peat (S3) (LRR K, L, R) by Peat or Peat (S3) (LRR K, L, R) by Peat or Peat (S8) (LRR K, L) by Surface (S9) (LRR K, L) by Inese Masses (F12) (LRR K, L, R) by Cloodplain Soils (F19) (MLRA 1491 by Cloodplain (F12) by Dark Surface (TF12)
Type: Depth (inches):				etland hydrology mus	t be pres	ent, unless	disturbed	or problematic.	
Depth (inches): No _		Layer (if observed):	:						
emarks:	-							Hydric Soil Pres	cent? Ves No
emarks:		ches):						Tryunc 3011 Fres	Sent: 165 NO

Project/Site: Wolf Hollow Plat	City/County: ^{TOWN} C	of Windsor/Dane CountySampling Date: 08/25/13
Applicant/Owner: Neumann Companies, Inc.		State: WI Sampling Point: 2A
Investigator(s): Neil J. Pfaff		
		onvex, none): Convex Slope (%): <1
		ong: 89° 29' 00.48" W Datum: UTM 16N
		NWI classification: None
Are climatic / hydrologic conditions on the site typical fo Are Vegetation <u>No</u> , Soil <u>Yes</u> , or Hydrology <u>Ye</u> :		o (If no, explain in Remarks.) re "Normal Circumstances" present? Yes NoX
Are Vegetation NO, Soil Yes, or Hydrology Yes	S naturally problematic? (If	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site m	ap showing sampling poin	t locations, transects, important features, etc.
Hydric Soil Present? Yes X	No Is the Sample within a Wet	land? Yes X No
Remarks: (Explain alternative procedures here or in a	7	al Wetland Site ID:
Total precipitation for the 3-month period (Ji Regional Airport). This was 4 inches (25%) at Therefore, climate/hydrologic conditions we Entire Site Previously Graded. Therefore, nor	pove the 30-year (1971-2000) ere typical. (NRCS - WETS Tabl	average for this period of 12.31 inches. le).
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)	Surface Soil Cracks (B6)
	Water-Stained Leaves (B9)	Drainage Patterns (B10)
1	Aquatic Fauna (B13)	Moss Trim Lines (B16)
	Marl Deposits (B15)	Dry-Season Water Table (C2)
	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
	Oxidized Rhizospheres on Living Ro	
<u> </u>	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	Stunted or Stressed Plants (D1) S (C6) Stunted or Stressed Plants (D2)
, <u> </u>		
	Thin Muck Surface (C7) Other (Explain in Remarks)	Shallow Aquitard (D3)Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		7 TAO-Neutral Test (D3)
Surface Water Present? Yes No _X	Depth (inches):	
Water Table Present? Yes X No		
		Wetland Hydrology Present? Yes X No
(includes capillary fringe)	, , , , , , , , , , , , , , , , , , , ,	
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, previous inspection	ons), if available:
Remarks:		
Tromains.		

T 01 1 (DI 1)		Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species? Status	Number of Dominant Species
1			That Are OBL, FACW, or FAC:1 (A)
2.			Total Number of Dominant
3			Species Across All Strata:1 (B)
4			Percent of Dominant Species That Are OBL FACW or FAC: 100% (A/B)
5			That Are OBL, FACW, or FAC: (A/B)
6			Prevalence Index worksheet:
7			Total % Cover of: Multiply by:
	0	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)			FACW species100 x 2 =200
1			FAC species x 3 =
2			FACU species x 4 =
3			UPL species x 5 = Column Totals: (A) (B)
4			Column Totals. 100 (A) 200 (B)
5			Prevalence Index = B/A =2
6.			Hydrophytic Vegetation Indicators:
7			1 - Rapid Test for Hydrophytic Vegetation
		= Total Cover	X 2 - Dominance Test is >50%
Herb Stratum (Plot size:)		- Total Cover	X 3 - Prevalence Index is ≤3.0¹
1. Phalaris arundinacea	100	X FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation ¹ (Explain)
2			resistance rigarophysic vegetation (Explain)
3			¹ Indicators of hydric soil and wetland hydrology must
4			be present, unless disturbed or problematic.
5			Definitions of Vegetation Strata:
6			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7			at breast height (DBH), regardless of height.
8			Sapling/shrub – Woody plants less than 3 in. DBH
9			and greater than or equal to 3.28 ft (1 m) tall.
10			Herb – All herbaceous (non-woody) plants, regardless
11			of size, and woody plants less than 3.28 ft tall.
12			Woody vines – All woody vines greater than 3.28 ft in
	100	= Total Cover	height.
Woody Vine Stratum (Plot size:)			
1			
2			
3			Hydrophytic
4.			Vegetation
	•	= Total Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate			
Plot entire reed canary grass monotype	,		

SOIL Sampling Point: 2A

(inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type ¹	Loc ²	Texture	Remarks
0-4	10 YR 3/1	95	10 YR 4/6	. <u>- 70 </u>	C	PL	SiL	i (Giliain)
4-12	10 YR 4/2	95	10 YR 4/6	5	C	PL_	SiCL	
12-20	10 YR 5/2	95	10 YR 4/6	5	C	PL	SiCL	
								_
								
				<u> </u>				
		etion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.		=Pore Lining, M=Matrix.
	Indicators:		Daharahaa Daha	0	(00) /L DI			Problematic Hydric Soils ³ :
_ Histosol Histic En	(A1) pipedon (A2)		Polyvalue Belov		(S8) (LRI	к к,		(A10) (LRR K, L, MLRA 149B) ie Redox (A16) (LRR K, L, R)
_ Black His	. ,		Thin Dark Surfa	ace (S9) (L				y Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Mucky N			, L)		ce (S7) (LRR K, L)
	l Layers (A5) d Below Dark Surface	- (Δ11)	Loamy Gleyed Depleted Matrix)			Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L)
	ark Surface (A12)	3 (7 (1 1)	X Redox Dark Su					inese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Depleted Dark		7)		-	Floodplain Soils (F19) (MLRA 149E
	Bleyed Matrix (S4)		Redox Depress	ions (F8)				dic (TA6) (MLRA 144A, 145, 149B
	ledox (S5)							Material (F21)
	Matrix (S6) rface (S7) (LRR R, N	II DA 1/10	3/					ow Dark Surface (TF12) ain in Remarks)
_ Daik Sui	nace (St) (Litti It, II	ILIXA 1431	رح)				Other (Expi	alli ili Nelliaiks)
			etland hydrology mus	st be prese	ent, unless	disturbed	or problematic.	
ctrictive !	_ayer (if observed):							
							Hydric Soil Pres	sent? Yes X No
Туре:	shee):							
Type:	ches):		<u> </u>					
Type:	ches):							
Type:	ches):		<u> </u>					
Type:	ches):							
Type:	ches):							
Type:	ches):							
Type:	ches):							
Type:	ches):							
Type:	ches):							
Type:	ches):							
Type:	ches):							
Туре:	ches):							
Type:	ches):							
Type:	ches):							
Type:	ches):							

Project/Site: Wolf Hollow Plat	City/County:Town	of Windsor/Dane CountySampling Date: 08/25/13
Applicant/Owner: Neumann Companies, Inc.		State: WI Sampling Point: 3A
Investigator(s): Neil J. Pfaff		
		convex, none): Concave Slope (%): <1%
		Long: 89° 29' 00.48" W Datum: UTM 16N
		NWI classification: None
Are climatic / hydrologic conditions on the site typical for Are Vegetation \underline{No} , Soil \underline{Yes} , or Hydrology \underline{Yes}		Are "Normal Circumstances" present? Yes NoX
Are Vegetation $\underline{\ \ No\ \ }$, Soil $\underline{\ \ Yes\ \ }$, or Hydrology $\underline{\ \ \ Yes\ \ }$	naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site m	nap showing sampling poin	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X Hydric Soil Present? Yes X	No Is the Sam within a Wo No If yes, optio	pled Area
Total precipitation for the 3-month period (J Regional Airport). This was 4 inches (25%) all Therefore, climate/hydrologic conditions we Entire Site Previously Graded. Therefore, no	bove the 30-year (1971-2000) ere typical. (NRCS - WETS Tal) average for this period of 12.31 inches. ole).
HYDROLOGY Western Hydrology Indicators		Cocondon Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; checl	k all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
	Water-Stained Leaves (B9)	Drainage Patterns (B10)
	Aquatic Fauna (B13)	Moss Trim Lines (B16)
	Marl Deposits (B15)	Dry-Season Water Table (C2)
	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
	Oxidized Rhizospheres on Living F	
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled So	ils (C6) X Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (D5)
Field Observations:		
	Depth (inches):	
	Depth (inches):	
Saturation Present? Yes No _X (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring v	vell, aerial photos, previous inspect	tions), if available:
Remarks:		

Fron Ctrotum (Diet eizer	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species That Are ORL FACW or FAC: 3 (A)
1				That Are OBL, FACW, or FAC:3 (A)
2.				Total Number of Dominant Species Across All Strata: 4 (B)
3.				Species Across All Strata: 4 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 75% (A/B)
5				That Are OBL, I AGW, OF I AC. (AB)
6		-		Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	= Total Cov	/er	OBL species x 1 = 60
Sapling/Shrub Stratum (Plot size:)		~		FACW species 80 x 2 = 160
1. Acer negundo	15	<u>×</u>	FAC	FAC species 15 x 3 = 45 FACU species 25 x 4 = 100
2. Populus tremuloides	5	X	FACU	UPL species x 5 =
3				Column Totals: 180 (A) 365 (B)
4				
5				Prevalence Index = B/A = 2.03
6				Hydrophytic Vegetation Indicators:
7	<u> </u>			1 - Rapid Test for Hydrophytic Vegetation
		= Total Cov	/er	× 2 - Dominance Test is >50%
Herb Stratum (Plot size:)				3 - Prevalence Index is ≤3.0¹
, 1. Phalaris arundinacea	80	×	FACW	 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2. Typha latifolia	60	$\overline{}$	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Poa pratensis	20		FACU	
4				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				
6				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7 •				at breast height (DBH), regardless of height.
8		-		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12				Woody vines – All woody vines greater than 3.28 ft in height.
	160	= Total Cov	/er	
Woody Vine Stratum (Plot size:)				
1		-		
2				
3				Hydrophytic
4		-		Vegetation Present? Yes X No
	0	= Total Cov	/er	

SOIL Sampling Point: 3A

7pe: C=Conce dric Soil Indic Histosol (A1) Histic Epipec Black Histic (Hydrogen Su Stratified Lay Depleted Bel Thick Dark S Sandy Mucky Sandy Gleye Sandy Redox Stripped Mat	cators:) don (A2) (A3) ulfide (A4) yers (A5) low Dark Surface Gurface (A12) y Mineral (S1) ed Matrix (S4) x (S5)		MLRA 14 Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Redox Dark	elow Surface 9B) urface (S9) (L ky Mineral (F1) ed Matrix (F2) atrix (F3) Surface (F6) ark Surface (F	(S8) (LRF .RR R, MI) (LRR K	R R, LRA 149B)	Indicators fo 2 cm Muc Coast Pra 5 cm Muc Dark Surl Polyvalue Thin Dark Iron-Mane	or Problem ck (A10) (I airie Redo cky Peat o face (S7) e Below S k Surface ganese M	LRR K, L, M ox (A16) (LRI or Peat (S3) ((LRR K, L) Surface (S8) ((S9) (LRR K Masses (F12)	Soils ³ : LRA 149B) R K, L, R) (LRR K, L, R)
pe: C=Conce dric Soil Indic Histosol (A1) Histic Epipeo Black Histic (Hydrogen St Stratified Lay Depleted Bel Thick Dark S Sandy Mucky Sandy Gleye Sandy Redox Stripped Mat	entration, D=Deplecators:) don (A2) (A3) Jeffide (A4) Jers (A5) Jow Dark Surface Surface (A12) Jed Matrix (S4) Jed Matrix (S4) Jed (S5)	95	=Reduced Matrix, = Polyvalue Be MLRA 14 Thin Dark St Loamy Muck Loamy Gleye Depleted Matrix Redox Dark Depleted Dark	5 MS=Masked elow Surface 9B) urface (S9) (L ky Mineral (F1 ed Matrix (F2) atrix (F3) Surface (F6) ark Surface (F6)	Sand Gra (S8) (LRF .RR R, MI) (LRR K	PL	2Location: F Indicators fo 2 cm Muc Coast Pra 5 cm Muc Dark Surl Polyvalue Thin Dark Iron-Mane	or Problem ck (A10) (I airie Redo cky Peat o face (S7) e Below S k Surface ganese M	natic Hydric LRR K, L, M Dox (A16) (LRI Or Peat (S3) ((LRR K, L) Surface (S8) ((S9) (LRR K Masses (F12)	Soils ³ : LRA 149B) R K, L, R) (LRR K, L, R) (LRR K, L) (LRR K, L)
/pe: C=Conce dric Soil Indic Histosol (A1) Histic Epipeo Black Histic (Hydrogen Su Stratified Lay Depleted Bel Thick Dark S Sandy Mucky Sandy Gleye Sandy Redoo Stripped Mat	entration, D=Deple cators:) don (A2) (A3) ulfide (A4) yers (A5) low Dark Surface surface (A12) y Mineral (S1) ed Matrix (S4) x (S5)	etion, RM	=Reduced Matrix, Polyvalue Be MLRA 149 Thin Dark St Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da	, MS=Masked elow Surface 9B) urface (S9) (L ky Mineral (F1 ed Matrix (F2 atrix (F3) Surface (F6) ark Surface (F	Sand Gra (S8) (LRF .RR R, MI) (LRR K	ains. R R,	² Location: F Indicators fo 2 cm Muc Coast Pra 5 cm Muc Dark Surl Polyvalue Thin Dark Iron-Mane	or Problem ck (A10) (I airie Redo cky Peat o face (S7) e Below S k Surface ganese M	natic Hydric LRR K, L, M Dox (A16) (LRI Or Peat (S3) ((LRR K, L) Surface (S8) ((S9) (LRR K Masses (F12)	Soils ³ : LRA 149B) R K, L, R) (LRR K, L, R) (LRR K, L) (LRR K, L)
dric Soil Indic Histosol (A1) Histic Epipec Black Histic (Hydrogen St Stratified Lay Depleted Bel Thick Dark S Sandy Muck Sandy Gleye Sandy Redox Stripped Mat	cators:) don (A2) (A3) ulfide (A4) yers (A5) low Dark Surface Gurface (A12) y Mineral (S1) ed Matrix (S4) x (S5)		Polyvalue Be MLRA 149 Thin Dark St Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da	elow Surface 9B) urface (S9) (L ky Mineral (F1) ed Matrix (F2) atrix (F3) Surface (F6) ark Surface (F	(S8) (LRF .RR R, MI) (LRR K	R R, LRA 149B)	Indicators fo 2 cm Muc Coast Pra 5 cm Muc Dark Surl Polyvalue Thin Dark Iron-Mane	or Problem ck (A10) (I airie Redo cky Peat o face (S7) e Below S k Surface ganese M	natic Hydric LRR K, L, M Dox (A16) (LRI Or Peat (S3) ((LRR K, L) Surface (S8) ((S9) (LRR K Masses (F12)	Soils ³ : LRA 149B) R K, L, R) (LRR K, L, R) (LRR K, L) (LRR K, L)
dric Soil Indic Histosol (A1) Histic Epipec Black Histic (Hydrogen St Stratified Lay Depleted Bel Thick Dark S Sandy Muck Sandy Gleye Sandy Redox Stripped Mat	cators:) don (A2) (A3) ulfide (A4) yers (A5) low Dark Surface Gurface (A12) y Mineral (S1) ed Matrix (S4) x (S5)		Polyvalue Be MLRA 149 Thin Dark St Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da	elow Surface 9B) urface (S9) (L ky Mineral (F1) ed Matrix (F2) atrix (F3) Surface (F6) ark Surface (F	(S8) (LRF .RR R, MI) (LRR K	R R, LRA 149B)	Indicators fo 2 cm Muc Coast Pra 5 cm Muc Dark Surl Polyvalue Thin Dark Iron-Mane	or Problem ck (A10) (I airie Redo cky Peat o face (S7) e Below S k Surface ganese M	natic Hydric LRR K, L, M Dox (A16) (LRI Or Peat (S3) ((LRR K, L) Surface (S8) ((S9) (LRR K Masses (F12)	Soils ³ : LRA 149B) R K, L, R) (LRR K, L, R) (LRR K, L) (LRR K, L)
dric Soil Indic Histosol (A1) Histic Epipec Black Histic (Hydrogen St Stratified Lay Depleted Bel Thick Dark S Sandy Muck Sandy Gleye Sandy Redox Stripped Mat	cators:) don (A2) (A3) ulfide (A4) yers (A5) low Dark Surface Gurface (A12) y Mineral (S1) ed Matrix (S4) x (S5)		Polyvalue Be MLRA 149 Thin Dark St Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da	elow Surface 9B) urface (S9) (L ky Mineral (F1) ed Matrix (F2) atrix (F3) Surface (F6) ark Surface (F	(S8) (LRF .RR R, MI) (LRR K	R R, LRA 149B)	Indicators fo 2 cm Muc Coast Pra 5 cm Muc Dark Surl Polyvalue Thin Dark Iron-Mane	or Problen ck (A10) (I airie Redo cky Peat o face (S7) e Below S k Surface ganese M	natic Hydric LRR K, L, M Dox (A16) (LRI Or Peat (S3) ((LRR K, L) Surface (S8) ((S9) (LRR K Masses (F12)	Soils ³ : LRA 149B) R K, L, R) (LRR K, L, R) (LRR K, L) (LRR K, L)
Histosol (A1) Histic Epipeo Black Histic (Hydrogen St. Stratified Lay Depleted Bel Thick Dark S Sandy Mucke Sandy Gleye Sandy Redo: Stripped Mat	don (A2) (A3) ulfide (A4) yers (A5) low Dark Surface Gurface (A12) y Mineral (S1) ed Matrix (S4) x (S5)	ı (A11)	MLRA 14 Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da	9B) urface (S9) (L ky Mineral (F1 ed Matrix (F2 atrix (F3) Surface (F6) ark Surface (F	.RR R, MI) (LRR K	LRA 149B)	2 cm Muc Coast Pra 5 cm Muc Dark Surl Polyvalue Thin Dark	ck (A10) (I airie Redo cky Peat c face (S7) e Below S k Surface ganese M	LRR K, L, M ox (A16) (LRI or Peat (S3) ((LRR K, L) Surface (S8) ((S9) (LRR K Masses (F12)	LRA 149B) R K, L, R) (LRR K, L, R) LRR K, L) (, L)
	trix (S6) e (S7) (LRR R, M	LRA 149	B)				Red Pare Very Sha	oodic (TA6 ent Materia	6) (MLRA 14 4 al (F21) c Surface (TF) (MLRA 149I 4A, 145, 149E 12)
-		on and w	etland hydrology n	nust be prese	ent, unless	s disturbed	or problematic.			
_	er (if observed):									
Type:									., X	
Depth (inches	s):						Hydric Soil Pr	resent?	Yes	_ No

Project/Site: Wolf Hollow Plat	City/County: Town of Windsor/Dane CountySampling Date: 08/25/13
Applicant/Owner: Neumann Companies, Inc.	
	Section, Township, Range: SE 1/4 SE 1/4 Sec. 29 T9N R10E
	Local relief (concave, convex, none): Concave Slope (%): <1%
	2' 44.58" N Long: _89° 29' 00.48" W Datum: UTM 16N
	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this t Are Vegetation No, Soil Yes, or Hydrology Yes sig	me of year? Yes X No (If no, explain in Remarks.) nificantly disturbed? Are "Normal Circumstances" present? Yes No X
Are Vegetation <u>No</u> , Soil <u>Yes</u> , or Hydrology <u>Yes</u> nat SUMMARY OF FINDINGS – Attach site map sl	urally problematic? (If needed, explain any answers in Remarks.) nowing sampling point locations, transects, important features, etc.
	Latter Committee of America
	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes X No Remarks: (Explain alternative procedures here or in a separative procedures)	If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that	t apply) Surface Soil Cracks (B6)
	Stained Leaves (B9) Drainage Patterns (B10)
	c Fauna (B13) Moss Trim Lines (B16)
	eposits (B15) Dry-Season Water Table (C2)
	gen Sulfide Odor (C1) Crayfish Burrows (C8)
	ed Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	nce of Reduced Iron (C4) It Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
<u> </u>	luck Surface (C7) Shallow Aquitard (D3)
	(Explain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depti	(inches):
Water Table Present? Yes No X Depti	
Saturation Present? Yes No X Depth	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, ae	ial photos, previous inspections), if available:
Remarks:	

·	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. 3.				Total Number of Dominant Species Across All Strata:5 (B)
4. 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 60% (A/6)
5				Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by: OBL species 20 x 1 = 20
		= Total Cov	er/	ODL species X 1
Sapling/Shrub Stratum (Plot size:)	20	×	FA 0	TACW species X2
Acer negundo	20		FAC	FAC species 20 x 3 = 60 FACU species 25 x 4 = 100
Populas tremuloides	5	X	FACU	UPL species x 5 =
3				Column Totals: 125 (A) 300 (B
ii				Prevalence Index = B/A =2.4
S				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
	ΩE	= Total Cov		X 2 - Dominance Test is >50%
Lade Otach and (Plate) and		- Total Cov	/ei	3 - Prevalence Index is ≤3.0 ¹
lerb Stratum (Plot size:) Phalaris arundinacea	60	X	FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
. Typha latifolia	20	×	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
s. Poa Pratensis	20		FACU	
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
i.				Definitions of Vegetation Strata:
). 7				Tree – Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height.
3 9				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardles
l1				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in height.
Noody Vine Stratum (Plot size:)		= Total Cov	er/	
l,				
2				
3				Hydrophytic
1			·	Vegetation Present? Yes No
	0	= Total Cov	er –	rieseitt! iesNU

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: 4A

Depth (inches)	Matrix Color (moist)	%	Redo Color (moist)	x Feature %	es Type ¹	Loc ²	Texture	Remarks
0-8	10 YR 3/1	95	10 YR 4/6	5	C	PL	SiL	Nomano
	-			-				
8-20	10 YR 5/6	95	10 YR 4/6	5	C	PL_	SiL	
		-						
-	·	1	-					
			_					
	· 	-	-					
	· -							
	·			-	_			
1			. 				2	
'Type: C=C Hydric Soil	Concentration, D=Depl	etion, RM	1=Reduced Matrix, MS	3=Maske	d Sand Gr	ains.		: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histoso			Polyvalue Belov	w Surface	(S8) (I R	R R		Muck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		(30) (LI	ıx ıx,		Prairie Redox (A16) (LRR K, L, R)
	listic (A3)		Thin Dark Surfa	ice (S9) (LRR R, M	LRA 149B)		Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Mucky N			(, L)		Surface (S7) (LRR K, L)
	ed Layers (A5)	(444)	Loamy Gleyed		2)			llue Below Surface (S8) (LRR K, L)
	ed Below Dark Surface Park Surface (A12)	e (A11)	Depleted Matrix X Redox Dark Su)			ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Depleted Dark					ont Floodplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)		Redox Depress					Spodic (TA6) (MLRA 144A, 145, 149B)
-	Redox (S5)							arent Material (F21)
	d Matrix (S6)							hallow Dark Surface (TF12)
Dark Su	urface (S7) (LRR R, N	ILRA 149	B)				Other ((Explain in Remarks)
3Indicators of	of hydrophytic vegetat	ion and w	etland hydrology mus	st be pres	ent unles	s disturbed	or problematic	•
	Layer (if observed):				,			•
Type:								
Depth (in	nches):						Hydric Soil	Present? Yes X No No
Remarks:								
rtomanto.								

Project/Site: Wolf Hollow Plat	City/County:Town of Windsor/Dane CountySampling Date: 08/25/13						
Applicant/Owner: Neumann Companies, Inc.							
	Section, Township, Range: SE 1/4 SE 1/4 Sec. 29 T9N R10E						
	Local relief (concave, convex, none): Concave Slope (%): 1%						
	2 244.58" N Long: 89° 29' 00.48" W Datum: UTM 16N						
	NWI classification: None						
Are climatic / hydrologic conditions on the site typical for this tir Are Vegetation <u>No</u> , Soil <u>Yes</u> , or Hydrology <u>Yes</u> sign	ne of year? Yes X No (If no, explain in Remarks.) ificantly disturbed? Are "Normal Circumstances" present? Yes No X						
Are Vegetation NO, Soil Yes, or Hydrology Yes natu	rally problematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map sh	owing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes X No _ Hydric Soil Present? Yes X No _ Wetland Hydrology Present? Yes X No _	within a Wetland? Yes X No						
Remarks: (Explain alternative procedures here or in a separa							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that	apply) Surface Soil Cracks (B6)						
	Stained Leaves (B9) Drainage Patterns (B10)						
	Fauna (B13) Moss Trim Lines (B16)						
	posits (B15) Dry-Season Water Table (C2)						
	en Sulfide Odor (C1) Crayfish Burrows (C8)						
	d Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
	ce of Reduced Iron (C4) Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Geomorphic Position (D2)						
	uck Surface (C7) Shallow Aquitard (D3) Explain in Remarks) Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	Explain in Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5)						
Field Observations:	7 TAC-Neutral Test (D3)						
Surface Water Present? Yes No _X Depth	(inches):						
Water Table Present? Yes No Depth							
Saturation Present? Yes No X Depth							
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aeri	al photos, previous inspections), if available:						
Remarks:							
Tremains.							

e Test worksheet:			
Dominant Species	4		
BL, FACW, or FAC:	4	(A)	
ber of Dominant	4		
cross All Strata:	4	(B)	
Dominant Species	100%		
DBL, FACW, or FAC:	10070	(A/B	
e Index worksheet:			
% Cover of:	Multiply by	y:	
es <u>80</u> x			
ecies <u>60</u> x			
es <u>10</u> x	3 =30		
cies x			
es x	5 =		
otals:150 (A	A) <u>230</u>) (B)	
alence Index = B/A =	1.53		
tic Vegetation Indica			
pid Test for Hydrophyt minance Test is >50%	-	n	
evalence Index is ≤3.0			
rphological Adaptation		supportin	
a in Remarks or on a			
ematic Hydrophytic Ve	getation¹ (E	xplain)	
of hydric soil and wetle, unless disturbed or p			
·	·		
s of Vegetation Strat	:a:		
ody plants 3 in. (7.6 cr			
eight (DBH), regardles	ss of height.		
nrub – Woody plants l			
r than or equal to 3.28	8 ft (1 m) tall	i.	
herbaceous (non-woo			
d woody plants less th	ıan 3.28 ft ta	dl.	
nes – All woody vines	greater than	າ 3.28 ft in	
height.			
tic n ✓			
Yes	No	_	
n	Yes X	Yes <u> </u>	

SOIL Sampling Point: 5A

Depth	Matrix			x Feature		. ?		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-7	10 YR 3/1	95	10 YR 4/6	5	C	PL	SiL	
7-20	10 YR 5/6	95	10 YR 4/6	5	C	PL	SiL	
				-	· 			
			_	-	· 			
				-				
			_	·	·			
					-			
	angentration D-Depl	lotion DM	-Paduaad Matrix Mi		d Sand Cr		² I coation:	DI - Doro Lining M-Matrix
	oncentration, D=Depl Indicators:	ellon, Riv	-Reduced Matrix, Mi	5-Masked	a Sand Gr	airis.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo		(S8) (LR I	RR,	2 cm M	luck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Thin Dark Surfa	,	LRR R, M	LRA 149B)		lucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Mucky N			, L)	· · · · · · · · · · · · · · · · · · ·	urface (S7) (LRR K, L)
	d Layers (A5) d Below Dark Surface	- (Δ11)	Loamy Gleyed Depleted Matrix		2)		-	lue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L)
	ark Surface (A12)	5 (A11)	X Redox Dark Su		ı			anganese Masses (F12) (LRR K, L, R)
	/lucky Mineral (S1)		Depleted Dark					ont Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)		Redox Depress	sions (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5)							arent Material (F21)
	l Matrix (S6) rface (S7) (LRR R, N	ILRA 149	В)					hallow Dark Surface (TF12) Explain in Remarks)
	f hydrophytic vegetat		etland hydrology mus	st be prese	ent, unles	s disturbed	or problematic	
	Layer (if observed):							
Type:							Hudria Cail I	Present? Yes X No No
Depth (in	ches):						nyuric Soii i	Present? Yes No
Remarks:								

Project/Site: _	Wolf Hollow P	at		City/0	County:Town	of Wind	lsor/Dane (County _S	ampling Date:	08/25/13	
	_{ner:} Neumann		Inc.				State:	WI	Sampling Point	: 6A	
Investigator(s)	: Neil J. Pfaff			Secti							
				Local re						e (%): 1 %	
				43° 12' 44.58" N							
	Name: Radford		Lat.			Long	NIVA/I	oloogificati	Batain	123691253)	
										2007.12007	
				r this time of year? \ S_ significantly distu					narks.) sent? Yes	NoX	
Are Vegetation	n <u>NO</u> , Soil <u>Y</u> e	<u>∋s</u> , or Hydrolo	ogy Ye	S naturally problem	atic?	(If needed	l, explain any	answers	in Remarks.)		
SUMMARY	OF FINDING	S – Attach	site m	ap showing san	npling poi	int locat	tions, tran	sects, i	mportant fea	atures, etc.	
Hydrophytic	Vegetation Preser	nt? Yes	, X	No	Is the Sam	pled Area	a	\ <u>/</u>			
Hydric Soil P	-		×		within a W	etland?	Yes	·	No		
-	Irology Present?	Yes	×	No	If yes, option	onal Wetla	nd Site ID: _				
Remarks: (E	Explain alternative	procedures he	re or in a	separate report.)							
Regional A Therefore,	Airport). This wa climate/hydro	as 4 inches (2 logic condit	25%) at ions we	une-August) precoove the 30-year tre typical. (NRC mal soils and hyc	(1971-2000 S - WETS Ta)) averaç ıble).	ge for this p				
HYDROLO											
	drology Indicator						Secondar	v Indicato	rs (minimum of to	wo required)	
_	cators (minimum o		d: chock	all that apply)			Surfa		-	<u>wo required)</u>	
	•	i one is require			ne (BQ)				, ,		
<u> </u>	Water (A1) ater Table (A2)			Water-Stained Leave Aquatic Fauna (B13)				age Patte			
Saturation				Marl Deposits (B15)		 Moss Trim Lines (B16) Dry-Season Water Table (C2)					
	larks (B1)			Hydrogen Sulfide Oc			•	0 (1.1)			
	nt Deposits (B2)			Oxidized Rhizospher		Poots (C3	-				
	posits (B3)			Presence of Reduce							
-	at or Crust (B4)			Recent Iron Reduction		· ·					
Iron Dep	, ,			Thin Muck Surface (5113 (00)		ow Aquita			
-	on Visible on Aeria	al Imagery (R7		Other (Explain in Re					nic Relief (D4)		
	Vegetated Conc			Other (Explain in Itel	iliaiks)		X FAC-				
Field Obser		TVE Surface (D	0)			1	<u> </u>	ineutiai ie	551 (D3)		
Surface Water		Yes N	. ×	Depth (inches):							
Water Table				Depth (inches):							
Saturation P				Depth (inches):		Wetland	d Hydrology	Present?	$_{Yes}$ $ imes$	No	
(includes car	oillary fringe)										
Describe Re	corded Data (strea	ım gauge, mor	nitoring w	ell, aerial photos, pre	evious inspec	ctions), if a	vailable:				
Remarks:											
r torrianto.											

VEGETATION – Use scientific	names of plants	3.			Samplin	ig Point: <u>6A</u>	١
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:		
1	·				Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
2					Total Number of Dominant Species Across All Strata:	1	(B)
3							. (D)
5					Percent of Dominant Species That Are OBL, FACW, or FAC:	100%	(A/B)
6					Prevalence Index worksheet:		
7					Total % Cover of:	Multiply by:	
		0	= Total Cov	er er	OBL species 100 x	1 = 100	_
Sapling/Shrub Stratum (Plot size:)				FACW species x2	2 =	_
1					FAC species x 3		
2					FACU species x 4		_
3.					UPL species x 5	5 =	_
4					Column Totals: 100 (A)	100	(B)
5.					Prevalence Index = B/A =	100	_
6.					Hydrophytic Vegetation Indicat	tors:	
7					1 - Rapid Test for Hydrophyti	ic Vegetation	
			= Total Cov	· · · · · · · · · · · · · · · · · · ·	X 2 - Dominance Test is >50%		
Harb Charles (Distains)	`		- Total Cov	rei	3 - Prevalence Index is ≤3.0¹		
Herb Stratum (Plot size:)	100	X	OBL	4 - Morphological Adaptation data in Remarks or on a s	ıs¹ (Provide sup separate sheet)	oporting)
2					Problematic Hydrophytic Veg	getation¹ (Expla	ain)
3					1		
4					Indicators of hydric soil and wetle be present, unless disturbed or p		must
5					Definitions of Vegetation Strata	a:	
6							
7					Tree – Woody plants 3 in. (7.6 cn at breast height (DBH), regardles		ıameter
8					Sapling/shrub – Woody plants le	ass than 3 in F)RH
9					and greater than or equal to 3.28		,011
10.					Herb – All herbaceous (non-wood	dy) plants, rega	ardless
11					of size, and woody plants less that		
12					Woody vines – All woody vines	greater than 3.2	28 ft in
		100	= Total Cov	ver	height.		
Woody Vine Stratum (Plot size:)						
1							
2							
3					Hydrophytic		
4					Vegetation Yes X	No	
			= Total Cov	er er	110001111		
Remarks: (Include photo numbers he	ere or on a separate	sheet.)					
Monotype stand of Typha latif	folia						

SOIL Sampling Point: 6A

Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks 0-6 10 YR 3/1 95 10 YR 4/6 5 C PL SiL 6-20 10 YR 5/6 95 10 YR 4/6 5 C PL SiL 10 YR 5/6 95 10 YR 4/6 5 C PL SiL 10 YR 5/6 95 10 YR 4/6 5 C PL SiL 2 Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 10 YR 5/6 95 10 YR 4/6 5 C PL SiL 2 Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 11 Yupe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 12 Coation: PL=Pore Lining, M=Matrix. 13 Indicators for Problematic Hydric Soils³: 14 Istosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) 15 Indicators for Problematic Hydric Soils³: 16 2 2 cm Muck (A10) (LRR K, L, MLRA 149B) 17 Inin Dark Surface (S9) (LRR R, MLRA 149B) 18 Istatified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) 2 Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (F7) 2 Inin Dark Surface (A12) Polyvalue Below Surface (F7) Piedmont Floodplain Soils (F19) (MLRA Sandy Mucky Mineral (S1) Polyvalue Below Surface (F7) Piedmont Floodplain Soils (F19) (MLRA Sandy Mucky Mineral (S1) Polyvalue Below Surface (F7) Piedmont Floodplain Soils (F19) (MLRA Sandy Mucky Mineral (S1) Polyvalue Below Surface (F7) Piedmont Floodplain Soils (F19) (MLRA Sandy Mucky Mineral (S1) Polyvalue Below Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, Sandy Mucky Mineral (S1) Polyvalue Below Surface (F12) (LRR K, L) Polyvalue B
Fype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Fype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Fyolia Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (A12) Thick Dark Surface (A11) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Redox Depressions (F8) Dark Surface (F7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thic Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, Red Parent Material (F2)) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Thich Dark Surface (A12) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) midicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, L MLRA 148B) Coast Prairie Redox (A16) (LRR K, L, MLRA 148 Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S9) (LRR K, L) Thin Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, Sandy Redox (S5) (LRR R, MLRA 149B) Redox Depressions (F8) Surface (S7) (LRR R, MLRA 149B) Thin Dark Surface (S7) (LRR R, MLRA 149B) Surface (S7) (LRR R, MLRA 149B) Surface (S7) (LRR R, MLRA 149B) Thin Dark Surface (S7) (LRR R, MLRA 149B) Surface (S7) (LRR R, MLRA 149B) Thin Dark Surface (S7) (LRR R, MLRA 149B) Surface (S7) (LRR R, MLRA 149B) Thin Dark Surface (S7) (LRR R, MLRA 149B) Surface (S7) (LRR R, MLRA 149B) Thin Dark Surface (S7) (LRR R, MLRA 149B) Surface (S8) (LRR R, MLRA 149B) Sur
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 148 Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, February Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 148 Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, February Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Idicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Loamy Mucky Mineral (F1) (LRR K, L) Below Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 1444, 145, Sandy Redox (S5) Stripped Matrix (S6) Redox Depressions (F8) Redox (S7) (LRR R, MLRA 149B) Briticators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 148 Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, February Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Idicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 148 Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, February Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, Sandy Redox (S5) Redox Depressions (F8) Redox Depressions (F8) Redox Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)
Histosol (A1)
Type:
Depth (inches): Hydric Soil Present? Yes No _

Project/Site: Wolf Hollow Plat	City/County: ^T OWN	of Windsor/Dane County	Sampling Date: 08/25/13			
Applicant/Owner: Neumann Companies, Inc.		State: WI				
Investigator(s): Neil J. Pfaff						
Landform (hillslope, terrace, etc.): Hillslope						
Subregion (LRR or MLRA): Lat	•					
	forthis force of course V					
Are climatic / hydrologic conditions on the site typical fare Vegetation \underline{NO} , Soil \underline{Yes} , or Hydrology \underline{Yes}			resent? Yes No X			
Are Vegetation NO , Soil Yes , or Hydrology Yes	es naturally problematic?	(If needed, explain any answers	s in Remarks.)			
SUMMARY OF FINDINGS - Attach site n	nap showing sampling poi	nt locations, transects,	important features, etc.			
Hydrophytic Vegetation Present? Yes	No X Is the Sam within a W	pled Area etland? Yes				
Hydric Soil Present? Yes Wetland Hydrology Present? Yes						
Remarks: (Explain alternative procedures here or in		nal Wetland Site ID:				
Therefore, climate/hydrologic conditions we Entire Site Previously Graded. Therefore, no		•				
HYDROLOGY			() () ()			
Wetland Hydrology Indicators:		•	ors (minimum of two required)			
Primary Indicators (minimum of one is required; chec		Surface Soil C	` '			
	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Drainage Patt				
	Marl Deposits (B15)	Moss Trim Lines (B16) Dry-Season Water Table (C2)				
	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)				
	Oxidized Rhizospheres on Living I					
	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)				
	Recent Iron Reduction in Tilled Sc					
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquit	ard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopograp	phic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral 1	Test (D5)			
Field Observations:						
	_ Depth (inches):					
	_ Depth (inches):					
Saturation Present? Yes No _X (includes capillary fringe)	_ Depth (inches):	Wetland Hydrology Present	? Yes No <u>X</u>			
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspec	ions), if available:				
Domonico						
Remarks:						

For a Chapture (Diet sine)	Absolute			Dominance Test worksheet:	
<u>Free Stratum</u> (Plot size:)		Species?		Number of Dominant Species	
l.				That Are OBL, FACW, or FAC: 0	(A)
				Total Number of Dominant	
		-		Species Across All Strata: 3	(B)
•				Percent of Dominant Species	(* (5)
				That Are OBL, FACW, or FAC: 0	(A/B)
				Prevalence Index worksheet:	
				Total % Cover of: Multiply by	<u>:</u>
	0	= Total Cov	ver	OBL species x 1 =	
sapling/Shrub Stratum (Plot size:)				FACW species x 2 =	
Populus trenuloides	5	X	FACU	FAC species x 3 =	
				FACU species 155 $x = 620$ UPL species $x = 25$ $x = 25$	
				Column Totals: 160 (A) 645	(B)
•				Prevalence Index = B/A = 4.03	
				Hydrophytic Vegetation Indicators:	
		-		1 - Rapid Test for Hydrophytic Vegetation	า
				2 - Dominance Test is >50%	
		= Total Cov	ver	3 - Prevalence Index is ≤3.0 ¹	
lerb Stratum (Plot size:)	00		E A O. I.	4 - Morphological Adaptations ¹ (Provide s	supporting
Poa pratensis	90	X	FACU	data in Remarks or on a separate she	
Salidago canadensis		X	<u>FACU</u>	Problematic Hydrophytic Vegetation ¹ (Ex	plain)
Cirsium aryense	5		FACU	¹ Indicators of hydric soil and wetland hydrolog	av muet
_ Dancus carota	5		UPL	be present, unless disturbed or problematic.	gy musi
Phleum pratense	5		FACU	Definitions of Vegetation Strata:	
				Tree – Woody plants 3 in. (7.6 cm) or more in at breast height (DBH), regardless of height.	n diameter
					5511
				Sapling/shrub – Woody plants less than 3 in and greater than or equal to 3.28 ft (1 m) tall.	
0				Herb – All herbaceous (non-woody) plants, re	
1				of size, and woody plants less than 3.28 ft tal	l.
2				Woody vines – All woody vines greater than	3.28 ft in
	155	= Total Cov	ver	height.	
Voody Vine Stratum (Plot size:)	-				
2.					
				The described to	
l				Hydrophytic Vegetation	
		= Total Cov		Present? Yes No	_
l					

Sampling Point: 1B

Depth (inches)	Matrix Color (moist)	%	Color (moist)	<u>x Features</u> %	Type ¹	Loc ²	Texture	Remarks
0-10	10 YR 3/3	100	Coloi (IIIolst)	/0	i ype	LUC	SiL	No Redox
								
10-20	10 YR 6/3	100					SiL	No Redox
Type: C=C		letion, RM	=Reduced Matrix, MS	=Masked	Sand Gra	ains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histosol			Polyvalue Belov	v Surface i	(S8) (I R F	P R		uck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B)		(30) (LKF	ΛN,		Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)			Thin Dark Surfa		RR R, MI	RA 149B)		ucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)			Loamy Mucky M	lineral (F1) (LRR K	, L)	Dark Su	ırface (S7) (LRR K, L)
	d Layers (A5)		Loamy Gleyed N		1			ue Below Surface (S8) (LRR K, L)
	d Below Dark Surface	e (A11)	Depleted Matrix					rk Surface (S9) (LRR K, L)
	ark Surface (A12)		Redox Dark Sur		_,			nganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Depleted Dark S		7)			nt Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)		Redox Depressi	ons (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
-	Redox (S5)							rent Material (F21)
	l Matrix (S6) rface (S7) (LRR R, N	/ILRA 149	3)					allow Dark Surface (TF12) Explain in Remarks)
			etland hydrology mus	t be prese	nt, unless	disturbed	or problematic.	
	Layer (if observed):							
Type:								×
Depth (in	ches):						Hydric Soil F	Present? Yes No
Remarks:								

SOIL

Project/Site: W	/olf Hollow P	at		City/C	County:Town	of Wind	sor/Dane Count	YSampling Date:	08/25/13	
Applicant/Owner:			es, Inc.				State: WI	Sampling Poi	int:2B	
Investigator(s):	Neil J. Pfaff			Section	on. Township	. Range:	SE 1/4 SE 1/4 Se	c. 29 T9N R10E	Ξ	
				Local reli		-				
, ,				t: 43° 12' 44.58" N	,		, -			
Soil Map Unit Na				·						
				for this time of year? Y						
-	-			es significantly distur			al Circumstances" p		NoX	
Are Vegetation _	No_, Soil <u>Y</u>	<u>∋s</u> , or Hyd	Irology Y	es naturally problema	atic? (If needed	, explain any answe	rs in Remarks.)		
SUMMARY O	F FINDING	S – Atta	ch site r	map showing sam	npling poi	nt locat	ions, transects	, important f	eatures, etc.	
Hydrophytic Ve Hydric Soil Pres	sent?	,	Yes	NoX NoX	Is the Samp	etland?	Yes	NoX	-	
Wetland Hydrol				No _X a separate report.)	If yes, option	nal Wetlaı	nd Site ID:			
Regional Airp Therefore, cli	oort). This wa mate/hydro	as 4 inche logic con	es (25%) a ditions w	June-August) precabove the 30-year vere typical. (NRCS)	(1971-2000) S - WETS Tak) averaç ole).	ge for this period			
HYDROLOGY										
Wetland Hydro	logy Indicator	s:					Secondary Indica	itors (minimum o	f two required)	
Primary Indicate	ors (minimum o	f one is req		ck all that apply)			Surface Soil	• •		
Surface Wa	, ,			Water-Stained Leave			Drainage Pa			
High Water				Aquatic Fauna (B13)		Moss Trim Lines (B16)				
Saturation				Marl Deposits (B15)	or (C1)	Dry-Season Water Table (C2) Crayfish Burrows (C8)				
Water Mark	` ,			Hydrogen Sulfide Od						
Sediment D Drift Depos				Oxidized Rhizosphere Presence of Reduced		Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)				
Algal Mat o				Recent Iron Reductio						
Iron Deposi				Thin Muck Surface (0		Shallow Aquitard (D3)				
Inundation		al Imagery (·	Other (Explain in Rer	•	Shallow Adultard (D3) Microtopographic Relief (D4)				
	egetated Conc						FAC-Neutral			
Field Observat										
Surface Water F	Present?	Yes	No	_ Depth (inches):						
Water Table Pre	esent?			_ Depth (inches):						
Saturation Pres		Yes	No	Depth (inches):		Wetland	Hydrology Presen	t? Yes	X	
(includes capilla		m dalide t	monitoring	well, aerial photos, pre	vious inspect	ione) if a	vailahle:			
Describe recor	ded Data (Street	iii gauge, i	nontoning	well, aeriai priotos, pre	wious irispect	.ion3), ii a	valiable.			
Remarks:										

Tree Stratum (Plot size:)	Absolute	Dominant Species?		Dominance Test worksheet:		
1				Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
2. 3				Total Number of Dominant Species Across All Strata:	2	(B)
4				Percent of Dominant Species	0	(A/B)
5.				That Ale OBL, FACW, OF FAC.		(A/b)
6				Prevalence Index worksheet:		
7	_			Total % Cover of:		
	0	= Total Cov	ver	OBL species x ^		_
Sapling/Shrub Stratum (Plot size:)				FACW species x 2	2 =	_
1. Acer Negundo	5	X	FAC	FAC species X 3	3 =	_
2					4 = <u>660</u>	_
3				UPL species 10 x 5	725	_
3 4				Column Totals:(A)) 725	(B)
5				Prevalence Index = B/A =	4.02	
6.				Hydrophytic Vegetation Indicat	tors:	
7				1 - Rapid Test for Hydrophyti	ic Vegetation	
·	_	T + + 0		2 - Dominance Test is >50%	_	
		= Total Cov	ver	3 - Prevalence Index is ≤3.0¹		
Herb Stratum (Plot size:)				4 - Morphological Adaptation		porting
1. Poa pratensis	90	<u>×</u>	FACu	data in Remarks or on a s	separate sheet)
2. Solidago canadensis	75	X	FACu	Problematic Hydrophytic Veg	getation¹ (Expla	ain)
3. Daucus carota	10		UPL	1 and a standard and a sail and a sail		4
4				¹ Indicators of hydric soil and wetle be present, unless disturbed or p		must
5				Definitions of Vegetation Strata	a:	
6				Tree – Woody plants 3 in. (7.6 cm	n) or more in d	iameter
7				at breast height (DBH), regardles	s of height.	
8				Sapling/shrub – Woody plants lead of the same of the s		BH
10.				Herb – All herbaceous (non-wood	dv) plants, rega	ardless
11.				of size, and woody plants less that		
12				Woody vines – All woody vines	greater than 3.	28 ft in
		= Total Cov		height.		
Woody Vine Stratum (Plot size:)						
1						
2.						
3				Usalan ahsatin		
				Hydrophytic Vegetation	×	
4	0	= Total Cov		Present? Yes	No <u>×</u>	
		- Total Cov	vei			

Sampling Point: 2B

SOIL

iches)	Matrix Color (moist)	%	Redox Fe Color (moist)	atures %Type ¹	Loc ²	Texture	Remarks
0-12	10 YR 3/3	100	Color (moist)	70 <u>Type</u>	LUC	SiL	No Redox
12-20	10 YR 6/3	100				SiL	No Redox
/pe: C=Co	oncentration, D=Dep	letion, RM	Reduced Matrix, MS=Ma	asked Sand Gra	ins.	² Location:	: PL=Pore Lining, M=Matrix.
Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped	pipedon (A2)		Polyvalue Below Su MLRA 149B) Thin Dark Surface (i Loamy Mucky Miner Loamy Gleyed Matr Depleted Matrix (F3 Redox Dark Surface Depleted Dark Surface Redox Depressions	S9) (LRR R, ML ral (F1) (LRR K, ix (F2)) e (F6) ace (F7)	RA 149B)	Coast I 5 cm M Dark S Polyval Thin Da Iron-Ma Piedmo Mesic S Red Pa	Juck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) Jucky Peat or Peat (S3) (LRR K, L, R) Jurface (S7) (LRR K, L) Jule Below Surface (S8) (LRR K, L) Jurface (S9) (LRR K, L) Jurface (F12) (MLRA 149B) Jurface (TA6) (MLRA 144A, 145, 149B) Jurface (TA6) (MLRA 144A, 145, 149B) Jurface (TF12) Jurface (TF12) Jurface (TF12) Jurface (TF12)
			etland hydrology must be	present, unless	disturbed	or problematic	
	_ayer (if observed):						
Type:	None						×
Depth (inc	ches):					Hydric Soil	Present? Yes No _X

Project/Site: Wolf Hollow Plat	City/County: ^T OWN	of Windsor/Dane County	Sampling Date: 08/25/13			
Applicant/Owner: Neumann Companies, Inc.		State: WI	Sampling Point:3B			
Investigator(s): Neil J. Pfaff						
Landform (hillslope, terrace, etc.): Hillslope		-				
Subregion (LRR or MLRA): La		Long: 89° 29' 00.48" W				
Are climatic / hydrologic conditions on the site typical i						
Are Vegetation No, Soil Yes, or Hydrology Y	•		resent? Yes No X			
Are Vegetation \underline{No} , Soil \underline{Yes} , or Hydrology \underline{Y}	es naturally problematic?	(If needed, explain any answer	s in Remarks.)			
SUMMARY OF FINDINGS - Attach site r	nap showing sampling poi	nt locations, transects,	important features, etc.			
	No X Is the Sam within a W		_ No <u>×</u> _			
		nal Wetland Site ID:				
Remarks: (Explain alternative procedures here or in						
Total precipitation for the 3-month period (Regional Airport). This was 4 inches (25%) a Therefore, climate/hydrologic conditions we Entire Site Previously Graded. Therefore, no	above the 30-year (1971-2000 vere typical. (NRCS - WETS Tal) average for this period ble).				
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicat	ors (minimum of two required)			
Primary Indicators (minimum of one is required; chec		Surface Soil (Cracks (B6)			
	_ Water-Stained Leaves (B9)	Drainage Patterns (B10)				
	_ Aquatic Fauna (B13)	Moss Trim Lines (B16)				
	Marl Deposits (B15)	Dry-Season Water Table (C2)				
	_ Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)				
	Oxidized Rhizospheres on Living I					
	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1) oils (C6) Geomorphic Position (D2)				
	Recent Iron Reduction in Tilled Sc					
	Thin Muck Surface (C7)	Shallow Aquit				
	Other (Explain in Remarks)	Microtopogra				
Sparsely Vegetated Concave Surface (B8) Field Observations:		FAC-Neutral	Test (D5)			
	Depth (inches):					
Water Table Present? Yes No X	Depth (inches):					
Saturation Present? Yes No X	Depth (inches):	Wetland Hydrology Present	? Yes No_X_			
(includes capillary fringe)			1: Tes NO _/			
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspec	tions), if available:				
Remarks:						
Troniano.						

	Absolute	Dominant Indica	I HOMINANCO LOST WORKSHOOT
Tree Stratum (Plot size:)		Species? State	Number of Dominant Species
			That Are OBL, FACW, or FAC: 0 (A)
2.			Total Number of Bollinant
3			(2)
l			
j			That Are OBL, FACW, or FAC: (A/B
5			Prevalence Index worksheet:
⁷			Total % Cover of: Multiply by:
	0	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)		FACW species x 2 =
			FAC species x 3 =
2.			FACU species <u>185</u> x 4 = <u>740</u>
3			UPL species x 5 = Column Totals:185 (A)740 (B)
i			— (A) — (A) — (B)
5.			Prevalence Index = B/A =4
5.			Hydrophytic Vegetation Indicators:
·			1 - Rapid Test for Hydrophytic Vegetation
	0	= Total Cover	2 - Dominance Test is >50%
Herb Stratum (Plot size:)		- Total Gover	3 - Prevalence Index is ≤3.0¹
Poa pratensis	100	X FAC	U 4 - Morphological Adaptations ¹ (Provide supportin data in Remarks or on a separate sheet)
Solidago canadensis	85	X FAC	data in recinance of on a separate sheet)
·			
3			Indicators of hydric soil and wetland hydrology must
l			
i			Definitions of Vegetation Strata:
). 			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
,			at breast height (DBH), regardless of height.
3			capining/cinical record plants loss than 5 mil 2211
)			and greater than or equal to 3.28 ft (1 m) tall.
0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1			-
2			Woody vines – All woody vines greater than 3.28 ft in height.
	185	= Total Cover	g
Voody Vine Stratum (Plot size:)			
)			
3			Hydrophytic
			Vegetation Present? Yes No X
l	0	= Total Cover	11050111: 105 110 110

SOIL Sampling Point: 3B

(inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type ¹	Loc ²	Texture		Remarks	
0-12	10 YR 3/3	100	Goldi (Molot)		Турс		SiL	None	romano	
12-20	10 YR 6/3	100					SiL	None		
		· -								
								-		
		. ——— -								
										
		· -						-		
		<u> </u>								
1 _T 0-0-	turking D-Dark	lation DM-	Dadua ad Matrice Mi				21 4:		Lining M-Matri	
Hydric Soil I	oncentration, D=Deplementations	letion, RIVI=	Reduced Matrix, M	S=Masked	Sand Gr	ains.			Lining, M=Matrix matic Hydric So	
Histosol		<u>.</u>	Polyvalue Belo	w Surface	(S8) (LR i	RR,			LRR K, L, MLR	
	pipedon (A2)		MLRA 149B	,			Coast	Prairie Red	ox (A16) (LRR K	(, L, R)
Black His	stic (A3) n Sulfide (A4)	-	Thin Dark Surfa Loamy Mucky I						or Peat (S3) (LR (LRR K, L)	R K, L, R)
	Layers (A5)	-	Loamy Gleyed			, =/			Surface (S8) (LR	R K, L)
	Below Dark Surface	e (A11)	Depleted Matrix						(S9) (LRR K, L)	
	ark Surface (A12) lucky Mineral (S1)	-	Redox Dark Su Depleted Dark		7)			-	Masses (F12) (LF ain Soils (F19) (N	
	eleyed Matrix (S4)	-	Redox Depress		')				6) (MLRA 144A ,	
-	edox (S5)							arent Materi		
	Matrix (S6)	AI DA 140D	\				-	Shallow Dark (Explain in f	k Surface (TF12)	
Dark Sur	rface (S7) (LRR R, N	ILKA 149D)				Other	(Explain in r	Temarks)	
	hydrophytic vegetat		land hydrology mus	st be prese	nt, unless	disturbed	or problemati	c.		
	_ayer (if observed):									
										X
Туре:										No 🗥
Type: Depth (inc	ches):		<u> </u>				Hydric Soil	Present?	Yes	
Type: Depth (inc	ches):						Hydric Soil	Present?	Yes	<u> </u>
Type: Depth (inc	ches):		_				Hydric Soil	Present?	Yes	
Type: Depth (inc	ches):						Hydric Soil	Present?	Yes	<u> </u>
Type: Depth (inc	:hes):						Hydric Soil	Present?	Yes	<u></u>
Type: Depth (inc	ches):						Hydric Soil	Present?	Yes	
Type: Depth (inc	ches):						Hydric Soil	Present?	Yes	
Type: Depth (inc	ches):						Hydric Soil	Present?	Yes	
Type: Depth (inc	ches):						Hydric Soil	Present?	Yes	
Type: Depth (inc	ches):						Hydric Soil	Present?	Yes	
Туре:	ches):						Hydric Soil	Present?	Yes	
Type: Depth (inc	ches):						Hydric Soil	Present?	Yes	
Type: Depth (inc	ches):						Hydric Soil	Present?	Yes	
Type: Depth (inc	ches):						Hydric Soil	Present?	Yes	
Type: Depth (inc	ches):						Hydric Soil	Present?	Yes	

Project/Site: Wolf Hollow Plat	City/County: ^T OWN	of Windsor/Dane County	Sampling Date: 08/25/13
Applicant/Owner: Neumann Companies, Inc.		State: WI	
Investigator(s): Neil J. Pfaff			
Landform (hillslope, terrace, etc.): Terrace			
Subregion (LRR or MLRA): La			
Are climatic / hydrologic conditions on the site typical at Are Vegetation No., Soil Yes., or Hydrology Yes.			emarks.) resent? Yes No <u> X </u>
Are Vegetation NO , Soil Yes , or Hydrology Y	es naturally problematic?	(If needed, explain any answer	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site r			
Hydrophytic Vegetation Present? Yes	No X Is the Sam	pled Area	
Hydric Soil Present? Yes	No X within a W	etland? Yes	No <u>X</u>
Wetland Hydrology Present? Yes		onal Wetland Site ID:	
Remarks: (Explain alternative procedures here or in	-		
Regional Airport). This was 4 inches (25%) a Therefore, climate/hydrologic conditions w Entire Site Previously Graded. Therefore, no	vere typical. (NRCS - WETS Ta	ble).	of 12.31 inches.
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; chec	ck all that apply)	Surface Soil (Cracks (B6)
	Water-Stained Leaves (B9)	Drainage Pat	
	_ Aquatic Fauna (B13)	Moss Trim Lii	
	_ Marl Deposits (B15)		Vater Table (C2)
	_ Hydrogen Sulfide Odor (C1)	Crayfish Burr	
	Oxidized Rhizospheres on Living		sible on Aerial Imagery (C9)
	Presence of Reduced Iron (C4)		ressed Plants (D1)
	Recent Iron Reduction in Tilled SoThin Muck Surface (C7)	oils (C6) Geomorphic l Shallow Aqui	
	Other (Explain in Remarks)	Microtopogra	` '
Sparsely Vegetated Concave Surface (B8)	- Other (Explain in Remarks)	FAC-Neutral	
Field Observations:			1001 (20)
Surface Water Present? Yes No X	Depth (inches):		
	Depth (inches):		
	Depth (inches):	Wetland Hydrology Presen	t? Yes No <u>×</u>
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspec	tions), if available:	
Remarks:			

2.	VEGETATION – Use scientific names of pla	ants.			Samplinç	g Point: 4B	
1.	Troo Stratum (Diot aiza:				Dominance Test worksheet:		
3.						0	(A)
Percent of Dominant Species 10						5	(B)
Prevalence Index worksheet: Total % Cover of:	4					0	(A/B)
Total % Cover of:					111000000000000000000000000000000000000		
D							
Sapilinal Stratum (Plot size:) 10		0	= Total Cov				
1. Acer negundo 2. Populus tremuloides 5	Sanling/Shruh Stratum (Plot size:		- Total Oo	VCI			
VPL species 50 x5 = 250 320			×	FAC			_
3.	···		$\overline{}$	FACU	•		_
4.							_
5.					Column Totals: 195 (A)	820	_ (B)
Hydrophytic Vegetation Indicators:					Prevalence Index = B/A =	4.2	
15							
Herb Stratum (Plot size:) 15							
Stratum (Plot size:) 1. Poa Pratensis 80	7	1 -				Ü	
1. Poa Pratensis 2. Solidago canadensis 3. Daucus carota 5. Solidago canadensis 6. Solidago canadensis 7. Solidago canadensis 8. Solidago canadensis 8. Solidago canadensis 9. Solidago canadensis 1. Solidago canadensis 1. Tree - Woody plants disturbed or problematic. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 10. Solidago canadensis 10. Solidago canadensis 10. Solidago canadensis 11. Solidago canadensis 12. Solidago canadensis 13. Solidago canadensis 14. Solidago canadensis 15. FACU 16. Problematic Hydrophytic Vegetation (Explain) 16. Solidago canadensis 17. Indicators of hydric soil and wetland hydrology muse present, unless disturbed or problematic. 18. Solidago canadensis 18. Solidago canadensis 19. Solidago canadensis 19. Solidago canadensis 19. Problematic Hydrophytic Vegetation (Explain) 19. Indicators of hydric soil and wetland hydrology muse present, unless disturbed or problematic. 10. Solidago canadensis 11. Solidago canadensis 12. Solidago canadensis 12. Solidago canadensis 13. Solidago canadensis 14. Solidago canadensis 14. Solidago canadensis 14. Solidago canadensis 15. Solidago canadensis 16. Solidago canadensis 18. Solidago canadensis 19. Solidago	Hade Otestana (Districts		= Total Cov	ver	3 - Prevalence Index is ≤3.0 ¹		
2 Solidago canadensis 50 X FACU 3. Daucus carota 50 X UPL 4.		80	×	FACII			portin
3. Daucus carota 50 X UPL 1 Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic. 5. Definitions of Vegetation Strata: 6. Tree – Woody plants 3 in. (7.6 cm) or more in dian at breast height (DBH), regardless of height. 8. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 10. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. 12. Woody Vine Stratum (Plot size:) 1			· 			. ,	ın)
4	Davisionante				Froblematic Hydrophytic vegt	etation (Explain	11)
5.					¹ Indicators of hydric soil and wetla	and hydrology m	nust
6					be present, unless disturbed or pre-	oblematic.	
7					Definitions of Vegetation Strata	:	
8	6				Tree – Woody plants 3 in. (7.6 cm	n) or more in dia	amete
9.	7				at breast height (DBH), regardless	s of height.	
10							ЗН
11						, ,	
12							rdless
180					Woody vines – All woody vines of	reater than 3.2	8 ft in
Woody Vine Stratum (Plot size:) 1	12.		- Total Co			reater than 6.20	0 10 111
1	Woody Vino Stratum (Dlat size:		- Total Cov	vei			
2							
3							
4							
4 Present? Yes No _^						\ <u>/</u>	
	4	0			Present? Yes	No X	
Remarks: (Include photo numbers here or on a separate sheet.)			= Total Cov	ver			
	Remarks: (Include photo numbers here or on a sepa						

Sampling Point: 4B

Profile Description: (Describe to the d	epth needed to docur	nent the indicator or cor	firm the absence	e of indicators.)
Depth <u>Matrix</u>		x Features	<u> </u>	
(inches) Color (moist) %	Color (moist)	<u>% Type¹ Loc</u>		Remarks
0-10 10 YR 4/3 100			SiL	None
10-20 10 YR 6/3 100			SiL	None
		·		
		· — — —		
	_,			
		·		
		· —— —— ——		
		· — — —		
	_	·		· .
		·		
		·		
¹ Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, MS	S=Masked Sand Grains.		n: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:				s for Problematic Hydric Soils ³ :
Histosol (A1)	•	w Surface (S8) (LRR R ,		Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)Black Histic (A3)	MLRA 149B) Thin Dark Surfa	rice (S9) (LRR R, MLRA 1		Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)		Mineral (F1) (LRR K, L)		Surface (S7) (LRR K, L)
Stratified Layers (A5)	Loamy Gleyed			alue Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11)	Depleted Matrix			Dark Surface (S9) (LRR K, L)
Thick Dark Surface (A12)	Redox Dark Su			Manganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)	Depleted Dark S			nont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)Sandy Redox (S5)	Redox Depress	ions (F8)		Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21)
Stripped Matrix (S6)				Shallow Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 14	19B)			(Explain in Remarks)
2				
³ Indicators of hydrophytic vegetation and	wetland hydrology mus	t be present, unless distu	rbed or problemati	C.
Restrictive Layer (if observed):				
Туре:			Hardela Oct	I Present? Yes No X
Depth (inches):			Hydric Soi	I Present? Yes No _X
Remarks:				

Project/Site: Wolf Hollow Plat	City/County: ^T OWN	of Windsor/Dane County	/Sampling Date: 08/25/13
Applicant/Owner: Neumann Companies, Inc.		State: WI	
Investigator(s): Neil J. Pfaff			
Landform (hillslope, terrace, etc.): Hillslope			
Subregion (LRR or MLRA): La			
Are climatic / hydrologic conditions on the site typical f			
Are Vegetation No , Soil Yes , or Hydrology Y	es significantly disturbed?	Are "Normal Circumstances" p	resent? Yes No X
Are Vegetation \underline{NO} , Soil \underline{Yes} , or Hydrology \underline{Yes}	es naturally problematic?	(If needed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach site r	nap showing sampling poi	nt locations, transects.	important features, etc.
		<u> </u>	, , , , , , , , , , , , , , , , , , , ,
Hydrophytic Vegetation Present? Yes	No X Is the Sam		
Hydric Soil Present? Yes	_ NO		
		onal Wetland Site ID:	
Remarks: (Explain alternative procedures here or in		G	(1.4. 1)
Total precipitation for the 3-month period (
Regional Airport). This was 4 inches (25%) a Therefore, climate/hydrologic conditions w			OF 12.31 Inches.
mererore, climate/frydrologic conditions w	rere typical. (INICS - WEIS Ta	oic).	
Entire Site Previously Graded. Therefore, no	ormal soils and hydrology hav	e been altered.	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one is required; chec	ck all that apply)	Surface Soil (Cracks (B6)
Surface Water (A1)	_ Water-Stained Leaves (B9)	Drainage Pat	terns (B10)
High Water Table (A2)	_ Aquatic Fauna (B13)	Moss Trim Lir	nes (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season V	Vater Table (C2)
Water Marks (B1)	_ Hydrogen Sulfide Odor (C1)	Crayfish Burr	ows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Roots (C3) Saturation Vis	sible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or St	ressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled So	oils (C6) Geomorphic I	Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquit	tard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopogra	phic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral	Test (D5)
Field Observations:			
Surface Water Present? Yes No X	Depth (inches):		
	Depth (inches):		
	Depth (inches):	Wetland Hydrology Present	t? Yes No <u>×</u>
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring	well aerial photos previous inspec	tions) if available:	
Describe Necorded Data (stream gauge, monitoring	well, acrial priotos, previous mapee	nons), ii avanabic.	
Remarks:			

VEGETATION – Use scientific names of plants. Sampling Point: Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: _____) % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: ___ (A) **Total Number of Dominant** 5 Species Across All Strata: ____ (B) Percent of Dominant Species 20% That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: 0 = Total Cover **OBL** species ____ x 1 = ___ 20 _ x 2 = __ FACW species _ Sapling/Shrub Stratum (Plot size: _____) 10 __ x 3 = X **FAC** FAC species 1. Acer negundo 10 180 720 **FACU** species x 4 = 10 2. Populas tremuloides **FACU UPL** species __ x 5 = _ 10 **FACW** Acer saccharinum 210 810 Column Totals: (A) (B) 3.86 Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% 30 = Total Cover ___ 3 - Prevalence Index is ≤3.0¹ Herb Stratum (Plot size: _____) 4 - Morphological Adaptations (Provide supporting 90 X FACU 1. Poa pratensis data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation¹ (Explain) 80 2. Solidago Canadensis FACU 10 3. Phalaris arondinacea **FACW** ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 180 = Total Cover Woody Vine Stratum (Plot size: _____) 2. ______ ___ _____ Hydrophytic Vegetation Yes ____ No _X__ Present? = Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: 5B

(inches)	Matrix Color (moist)	%	Color (moist)	K Features Mype	Loc ²	Texture	Remarks
0-9	10 YR 4/3		Color (moist)		LUC		Vellique
		100				SiL	
9-20	10 YR 6/3	100				SiL	
		· ——					
		· ——					
		·					
		. 					
		·					
		letion, RM=	Reduced Matrix, MS	=Masked Sand	Grains.		=Pore Lining, M=Matrix.
	Indicators:		Polyvalue Below	, Surface (S8) (I	DD D		Problematic Hydric Soils ³ : (A10) (LRR K, L, MLRA 149B)
HistosolHistic En	oipedon (A2)		MLRA 149B)	, , ,	.KK K,		e Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa		MLRA 149B)		Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Mucky M				e (S7) (LRR K, L)
	l Layers (A5)		Loamy Gleyed N	Matrix (F2)		Polyvalue B	elow Surface (S8) (LRR K, L)
	d Below Dark Surface	e (A11)	Depleted Matrix				urface (S9) (LRR K, L)
	ark Surface (A12)		Redox Dark Sur				nese Masses (F12) (LRR K, L, R)
-	lucky Mineral (S1)		Depleted Dark S				oodplain Soils (F19) (MLRA 149E
-	Sleyed Matrix (S4)		Redox Depressi	ons (F8)			ic (TA6) (MLRA 144A, 145, 149B
Sandv R	ledox (S5)						Material (F21)
-	Matrix (SG)	/II RA 149R	3)				w Dark Surface (TF12) ain in Remarks)
_ Stripped	rface (S7) (LRR R, N						
Stripped Dark Sur	rface (S7) (LRR R, N		tland hydrology mus	t be present, unl	ess disturbed	or problematic.	
Stripped Dark Sur dicators of	rface (S7) (LRR R, N	tion and we	tland hydrology mus	t be present, unl	ess disturbed	or problematic.	
Stripped Dark Sur dicators of estrictive L Type:	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, unl	ess disturbed		ent? Ves No
_ Stripped _ Dark Sur ndicators of estrictive L Type: Depth (inc	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, unl	ess disturbed	or problematic. Hydric Soil Pres	ent? Yes No
Stripped Dark Sur dicators of estrictive L Type: Depth (inc	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, unl	ess disturbed		ent? Yes No
Stripped Dark Sur dicators of estrictive L Type: Depth (inc	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, unl	ess disturbed		ent? Yes No
Stripped Dark Sur dicators of strictive L Type: Depth (inc	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, unl	ess disturbed		ent? Yes No
Stripped Dark Sur dicators of strictive L Type: Depth (inc	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, unl	ess disturbed		ent? Yes NoX
Stripped Dark Sur dicators of estrictive L Type: Depth (inc	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, unl	ess disturbed		ent? Yes NoX
Stripped Dark Sur dicators of strictive L Type: Depth (inc	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, unl	ess disturbed		ent? Yes No _X
Stripped Dark Sur dicators of strictive L Type: Depth (inc	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, unl	ess disturbed		ent? Yes No
Stripped Dark Sur dicators of estrictive L Type: Depth (inc	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, unl	ess disturbed		ent? Yes No _X
Stripped Dark Sur dicators of estrictive L Type: Depth (inc	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, unl	ess disturbed		ent? Yes NoX
_ Stripped _ Dark Sur ndicators of estrictive L Type: Depth (inc	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, unl	ess disturbed		ent? Yes No _X
_ Stripped _ Dark Surndicators of estrictive L Type: Depth (inc.	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, unl	ess disturbed		ent? Yes No X
_ Stripped _ Dark Surndicators of estrictive L Type: Depth (inc.	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, unl	ess disturbed		ent? Yes No X
Stripped Dark Sur ndicators of estrictive L Type:	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, unl	ess disturbed		ent? Yes No
_ Stripped _ Dark Surndicators of estrictive L Type: Depth (inc.	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, unl	ess disturbed		ent? Yes No _X
_ Stripped _ Dark Sur ndicators of estrictive L Type: Depth (inc	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, un	ess disturbed		ent? Yes No ×
Stripped Dark Sur dicators of estrictive L Type: Depth (inc	rface (S7) (LRR R, M f hydrophytic vegetat _ayer (if observed):	tion and we	tland hydrology mus	t be present, un	ess disturbed		ent? Yes No ×

Project/Site: Wolf Hollow Plat	City/County: ^T OWN	of Windsor/Dane County	Sampling Date: 08/25/13
Applicant/Owner: Neumann Companies, Inc.		State: WI	
Investigator(s): Neil J. Pfaff			
Landform (hillslope, terrace, etc.): Terrace			
Subregion (LRR or MLRA): Lat		•	
Are climatic / hydrologic conditions on the site typical f			
Are Vegetation No , Soil Yes , or Hydrology Yes	es significantly disturbed?	Are "Normal Circumstances" pr	resent? Yes No X
Are Vegetation \underline{NO} , Soil \underline{Yes} , or Hydrology \underline{Yes}	es naturally problematic?	(If needed, explain any answers	s in Remarks.)
SUMMARY OF FINDINGS - Attach site n	nap showing sampling poi	nt locations, transects,	important features, etc.
			,
Hydrophytic Vegetation Present? Yes	No X Is the Sam	pled Area	No <u>×</u>
Hydric Soil Present? Yes	_ 110		
		nal Wetland Site ID:	
Remarks: (Explain alternative procedures here or in	. ,	C. I. I	/A !! 5
Total precipitation for the 3-month period (
Regional Airport). This was 4 inches (25%) a Therefore, climate/hydrologic conditions w			of 12.31 inches.
mererore, climate/frydrologic conditions w	cic typical. (IVICS - WEIS Ta	oic).	
Entire Site Previously Graded. Therefore, no	ormal soils and hydrology hav	e been altered.	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is required; chec	ck all that apply)	Surface Soil 0	Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patt	erns (B10)
High Water Table (A2)	_ Aquatic Fauna (B13)	Moss Trim Lir	nes (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season V	Vater Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burro	ows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Roots (C3) Saturation Vis	sible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Str	ressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled So	oils (C6) Geomorphic F	Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquit	ard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopograp	ohic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral ⁻	Test (D5)
Field Observations:			
	Depth (inches):		
	Depth (inches):		
	Depth (inches):	Wetland Hydrology Present	? Yes No X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring	well aerial photos previous inspec	tions) if available:	
Describe Necorded Bata (stream gauge, monitoring	well, aeriai priotos, previous ilispee	ions), ii available.	
Remarks:			

Trace Otractions (Diet sine)	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2.				Total Number of Dominant Species Across All Strata: 5 (B)
3				Species Across All Strata:5 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 20% (A/B)
5				That Are OBE, I AGW, OF AC (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)				FACW species x 2 =
1. Acer negundo	10	X	FAC	FAC species X3 = X3 = X40
2. Pooulas tramuloides	10	X	FACU	1 ACO species X4
3				UPL species $40 \times 5 = 200$ Column Totals: 210×6 (A) 870×6
4				(1)
5				Prevalence Index = B/A =4.14
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	20	= Total Cov	ver	2 - Dominance Test is >50%
Herb Stratum (Plot size:)				3 - Prevalence Index is ≤3.0 ¹
1. Poa pratensis	90	×	FACU	 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2. Solidago canadensis	60		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Daucus carota	40	X	UPL	
4				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12				Woody vines – All woody vines greater than 3.28 ft in height.
		= Total Cov	er	
Woody Vine Stratum (Plot size:)				
1				
2				
3				Hydrophytic
4				Vegetation Present? Yes NoX
	0	= Total Cov	er er	

SOIL Sampling Point: 6B

Depth (inches)	Matrix Color (moint)	%		x Features		Loc ²	Texture	Pomorko
(inches) 0-10	Color (moist)	100	Color (moist)	%	Type ¹	LOC		Remarks
<u> </u>	10 YR 4/3						SiL	
10-20	10 YR 6/3	100					SiL	
								
1			Deduced Metric M		0 1 0 -		21	Di Dana Linia a M. Matria
Hydric Soil	oncentration, D=Depl	etion, RM=	Reduced Matrix, Mi	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix. r Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surface	(S9) (I D I	D D		ck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)	•	Polyvalue Belo		(36) (LK i	х κ,		airie Redox (A16) (LRR K, L, R)
	istic (A3)		Thin Dark Surfa	,	.RR R. M	LRA 149B)		cky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)	•	Loamy Mucky N	, , ,		,		face (S7) (LRR K, L)
Stratified	d Layers (A5)		Loamy Gleyed	Matrix (F2)			Below Surface (S8) (LRR K, L)
	d Below Dark Surface	e (A11)	Depleted Matrix					Surface (S9) (LRR K, L)
	ark Surface (A12)		Redox Dark Su					ganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Depleted Dark		7)			Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)		Redox Depress	sions (F8)				odic (TA6) (MLRA 144A, 145, 149B)
-	Redox (S5) I Matrix (S6)							nt Material (F21) Ilow Dark Surface (TF12)
	rface (S7) (LRR R, N	II RA 149R)					plain in Remarks)
Bank Ga	indoo (O7) (ERRETE, II	ILION 140B	,				Outlot (EX	pian in Romano,
³ Indicators o	f hydrophytic vegetat	ion and we	land hydrology mus	st be prese	ent, unles	s disturbed	or problematic.	
Restrictive	Layer (if observed):							
Type:								
Depth (in	ches).						Hydric Soil Pr	esent? Yes No _X
Remarks:	onco)							
Remarks.								



WETS Table Page 1 of 3

USDA Field Office Climate Data

WETS Station: MADISON DANE RGNL AP, WI837 Creation Date: 08/26/2013 Latitude: 4308 Longitude: 08921 Elevation: 00866 State FIPS/County(FIPS): 55025 County Name: Dane

Start yr. - 1971 End yr. - 2000

<u>-</u>		-								
		Γemperatι (Degrees		Precipitation (Inches) 						
		 			30% chance will have		avg # of days	avg total		
Month	avg daily	avg daily	avg	avg	less than	more than	w .1	snow fall		
	max	min					more	1411		
January	25.2	9.3	17.3	1.25	0.78	1.51	4	12.8		
February	30.8	14.3	22.6	1.28	0.66	1.56	4	8.6		
March	42.8	24.6	33.7	2.28	1.22	2.78	5	7.0		
April	56.6	35.2	45.9	3.35	2.54	3.91	7	3.5		
May	69.4	46.0	57.7	3.25	2.05	3.92	j 7	0.1		
June	78.3	55.7	67.0	4.05	2.36	4.92	7	0.0		
July	82.1	61.0	71.6	3.93	2.88	4.62	6	0.0		
August	79.4	58.7	69.1	4.33	3.07	5.12	j 7	0.0		
September	71.4	49.9	60.7	3.08	1.58	3.77	6	0.0		
October	59.6	38.9	49.3	2.18	1.33	2.64	5	0.4		
November	43.3	27.7	35.5	2.31	1.40	2.80	5	4.5		
December	30.2	15.8	23.0	1.66	0.89	2.02	4	12.5		
Annual					29.96	35.52	 			
Average	55.8	 36.4	46.1	 			 			
Average		 	 	32.95	 	 	 66 	49.3		
		ı	· 		ı - – – – – – –		' 			

GROWING SEASON DATES

	Temperature							
Probability	24 F or higher	28 F or higher	32 F or higher					
	!	Beginning and Ending Dates Growing Season Length						
50 percent *	4/14 to 10/25 193 days	4/24 to 10/ 9 167 days	5/ 9 to 9/30 143 days					
70 percent *	4/10 to 10/29 202 days	4/19 to 10/14 177 days	5/ 5 to 10/ 4 151 days					

WETS Table Page 2 of 3

* Percent chance of the growing season occurring between the Beginning and Ending dates.

total 1939-2013 prcp

Station: WI837, MADISON DANE RGNL AP

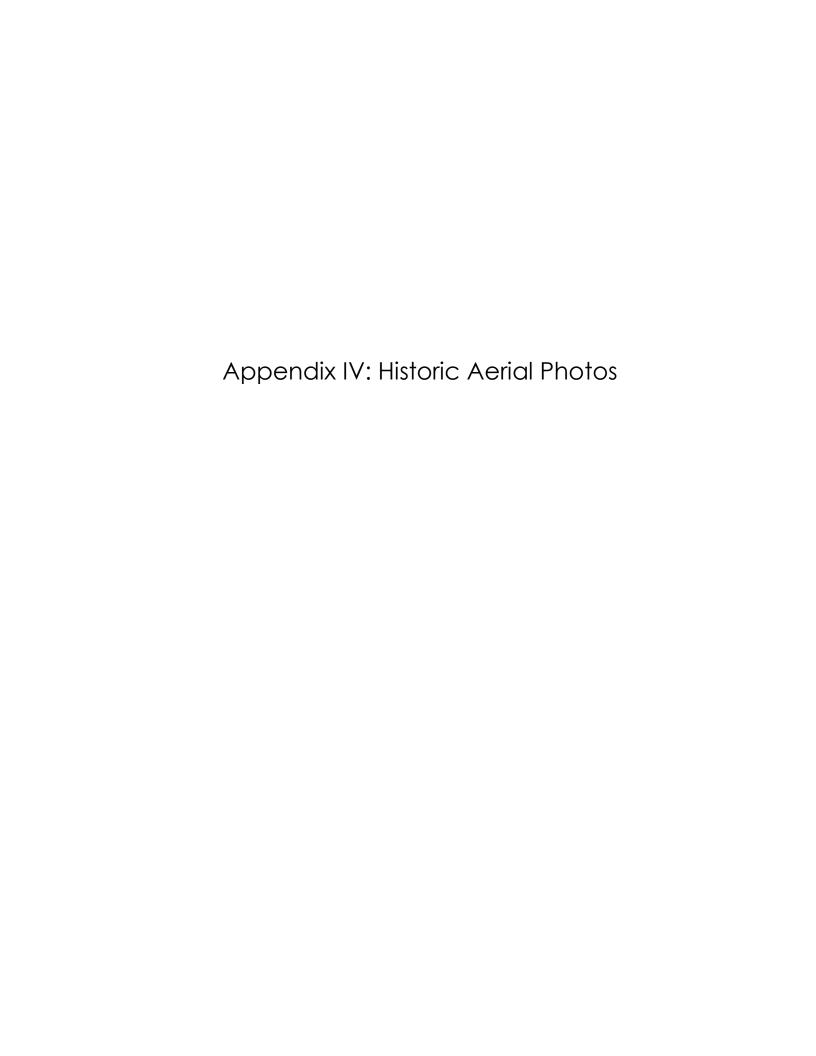
----- Unit = inches

yr 	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	annl
39										1.67	0.24	0.29	2.20
40	0.91	0.76	1.07	2.40	2.70	5.04	2.88	6.76	0.81	2.39	2.49		29.42
	2.72	0.78	1.82	1.93	3.03	3.42	2.93	1.29	9.87	2.86	0.93		32.87
	1.16	0.50	1.46	0.81	4.49	4.26	3.58	4.14	3.43	2.44	3.27		32.09
	2.15	0.76	2.48	0.99	2.88	2.33	1.54	2.31	0.37	0.83	3.15		20.78
	1.40	1.69	2.46	3.74	2.33	3.42	2.77	1.54	3.05	0.29	1.54		25.37
	0.31	1.40	1.40	2.89	5.27	2.81	2.65	4.07 1.63	6.27 1.28	0.78	2.34		31.66 20.89
	1.97 2.26	0.88 0.29	2.88 1.73	0.94 3.68	2.14 4.35	2.81	0.95 2.17	1.58	6.03	1.79 1.85	2.08 2.82		32.46
	0.49	2.13	2.85	2.97	2.90	2.55	2.55	0.70	1.87	1.29	3.56		25.61
	1.97	1.26	2.35	1.10	2.22	6.43	5.76	2.20	1.12	1.86	1.04		29.01
	2.43	1.65	2.34	2.67	3.43		10.93	2.69	2.09	1.23	1.04		38.71
	1.44	1.70	2.13	4.42	3.00	2.55	3.08	3.08	2.56	5.38	2.17		32.98
52	2.21	0.60	2.92	1.21	3.18	4.08	7.60	4.73	0.49	0.06	2.94	1.67	31.69
53	0.64	2.77	2.58	3.12	1.02	5.15	4.28	3.49	2.11	1.81	0.52	2.17	29.66
54	0.76	0.63	1.19	4.09	2.98	7.36	5.73	2.78	3.82	3.72	0.81	1.20	35.07
	0.65	1.67	0.96	3.65	2.10	2.78	3.93	1.55	0.80	3.24	0.57		22.49
	0.43	1.00	2.53	3.54	5.11	3.24	4.50	5.64	1.42	0.31	2.78		31.51
	0.41	0.38	1.19	2.40	5.80	6.41	4.00	4.86	0.95	2.14	2.91		32.86
	0.52	0.08	0.38	2.73	3.93 3.06	2.16	1.69	2.06	2.44	2.50	2.29		21.09
	1.40 2.19	1.58 1.14	2.90 1.93	4.01 4.02	6.26	3.86 2.09	4.12 6.04	5.68 6.18	3.44 3.90	5.55 3.32	$2.29 \\ 1.47$		40.34 38.79
	0.19	1.14	3.42	1.33	1.17	1.84	3.67	1.78	7.92	3.75	3.94		31.04
	1.12	1.39	1.73	1.43	3.01	2.09	4.39	2.04	1.31	1.68	0.34		21.43
	0.76	0.39	2.33	1.67	1.82	8.15	2.29	3.23	2.30	0.64	1.96		26.19
	0.93	0.26	2.12	3.15	3.87	2.28	4.28	2.52	1.85	0.08	1.94		23.62
65	1.80	0.74	2.51	2.94	1.86	2.31	3.30	6.77	9.22	1.69	1.96		37.60
66	1.07	1.36	2.11	1.54	4.31	2.91	3.24	3.83	0.51	1.65	1.28	2.62	26.43
67	1.63	1.17	1.49	2.57	3.53	6.46	2.51	2.71	2.68	5.52	1.83	1.89	33.99
	0.56	0.49	0.59	4.18	2.02	7.82	2.54	2.58	4.45	0.85	1.74		30.71
	2.26	0.18	1.47	2.72	3.45	7.96	4.28	0.96	1.35	2.65	0.70		29.64
	0.44	0.16	1.17	2.53	6.09	2.26	2.42	0.97	8.82	2.65	1.06		30.69
	1.48	2.59	1.52	2.42	0.98	2.27	1.65	3.96	1.87	1.30	3.48		27.16
	0.40 1.54	0.42	2.23	2.02 7.11	2.83 5.27	1.65	3.49 2.68	7.47	5.26 3.59	2.42 2.30	0.86		30.96
	2.45	1.20 1.17	5.04 3.43	4.24	5.27	0.81	2.69	2.53 4.60	1.08	3.18	$1.48 \\ 1.79$		35.53 36.06
	0.98	1.54	3.43	4.19	4.57	4.30	6.05	5.25	0.84	0.64	2.79		34.53
	0.56		4.75		1.95		1.46		0.50				21.08
	0.53	1.44	3.03	2.59	2.52	2.63	6.63	5.19	2.84	1.41	2.12		32.53
	1.03	0.24	0.28	3.50	3.96	9.95	4.54	1.63	5.44	1.11	3.05		36.44
79	1.69	0.90	2.67	2.46	2.70	2.53	2.80	4.96	0.11	3.10	2.27	1.93	28.12
80	1.11	0.64	0.68	2.36	2.08	3.43	2.67	9.49	7.84	1.13	1.33	1.62	34.38
	0.14	2.47	0.33	3.42	0.64	4.99	4.81	7.06	3.10	2.68	1.71		32.10
	1.42	0.17	2.11	3.26	4.34	3.40	3.47	2.67	1.42	1.46	4.21		31.58
	0.53	2.26	2.70	2.23	4.21	1.85	1.92	5.05	2.85	2.59	3.18		31.67
	0.36	1.26	1.15	3.86	3.32	7.01	1.96	1.89	2.79	5.63	1.83		33.72
	1.43	1.89	3.13	1.52	3.35	3.06	4.48	2.98	5.00	4.58	5.13		38.94
	1.02	2.72 0.62	1.55 1.99	2.27 2.46	1.97 3.90	3.24 1.17	4.31	4.38 M5.85	6.82 3.61	1.85 1.24	1.03 3.24		31.85 32.11
	1.82	0.62	1.20	2.46	0.92	2.06	2.44	2.95	3.33	1.24 1.60	3.24		24.57
00	1.02	0.10	⊥. ∠∪	4.00	0.74	2.00	4.11	در. ے	5.55	1.00	5.50	1.50	_ 1 /

WETS Table Page 3 of 3

90	0.61 1.60 1.17	0.57 0.99 0.44	1.69 4.18 4.24	1.69 1.90 4.89	1.72 5.35 2.20	1.67 4.88 3.75	4.97 2.61 5.18	6.46 6.03 2.34	0.89 1.64 3.96	1.88 2.25 5.35	0.98 1.65 3.86	0.26 3.46 1.71	23.39 36.54 39.09
	0.78	1.34	1.90	3.17	1.12	1.53	5.54	2.48	5.99	1.06	4.83	2.39	32.13
	1.60	1.18	3.29	5.33	3.81	6.67	9.34	5.57	3.74	0.91	1.55	0.35	43.34
94	1.46	2.76	0.46	2.57	1.33	5.66	4.10	4.56	6.14	0.65	2.77	1.08	33.54
95	2.12	0.06	2.17	4.14	3.92	1.22	4.36	5.58	1.78	4.29	3.17	0.77	33.58
96	2.53	0.53	0.82	2.76	2.95	9.69	4.08	1.84	1.07	3.14	1.01	1.27	31.69
97	1.24	2.52	1.54	2.50	1.94	5.23	6.23	2.33	1.38	1.23	1.25	1.25	28.64
98	2.24	1.44	5.46	4.10	4.58	7.46	2.50	4.24	2.48	3.20	1.95	0.29	39.94
99	2.10	0.91	0.47	6.91	3.72	5.57	4.49	3.26	1.55	0.88	1.21	0.86	31.93
0	0.91	1.95	1.17	3.18	9.63	8.63	3.27	3.94	3.59	0.68	2.00	1.39	40.34
1	0.99	2.64	0.59	3.07	4.16	5.40	3.09	7.64	5.53	2.62	1.59	1.13	38.45
2	0.63	2.17	1.70	3.45	2.92	3.70	2.06	3.04	2.74	2.10	1.01	0.67	26.19
3	0.36	0.50	1.72	2.95	3.67	2.10	4.24	0.87	4.24	1.60	7.49	2.00	31.74
4	0.62	1.44	3.61	1.76	10.84	3.93	6.05	3.96	1.00	3.20	1.51	1.46	39.38
5	2.20	1.45	1.56	1.68	3.96	1.65	3.92	1.22	1.95	0.76	3.36	0.99	24.70
6	1.96	0.81	2.34	5.04	4.61	2.29	4.45	5.43	3.33	2.87	2.24	1.36	36.73
7	0.84	1.59	3.39	4.68	1.40	4.82	2.69	15.18	2.45	3.35	0.39	3.63	44.41
8	2.17	3.30	2.47	6.43	2.55	10.93	5.62	1.41	2.23	2.20	1.46	3.29	44.06
9	0.54	1.91	6.19	4.43	3.68	4.17	1.94	2.49	4.68	3.80	1.32	3.20	38.35
10	0.88	1.02	0.71	3.65	3.79	8.38	7.98	3.92	2.65	2.30	1.09	1.49	37.86
11	1.28	1.59	2.96	3.61	2.40	3.55	1.85	3.06	3.31	1.35	3.35	2.23	30.54
12	1.40	1.03	2.61	2.85	3.19	0.31	4.00	1.58	1.33	4.56	0.90	2.60	26.36
13	2.87	2.41	2.41	5.83	6.57	10.86	4.00	M1.53					36.48

Product generated by ACIS - NOAA Regional Climate Centers.





June 27, 1937 Aerial



2008 Aerial

Appendix V: Prior Wetland Delineation, May 5, 2000 "Thompson and Associates Wetland Services" Thompson and Associates

Wetland Services



AJG DM (Worig.)

May 5, 2000

Bill Sandy Wetland Ecologist U.S. Army Corps of Engineers 1617 E. Racine, #101 Waukesha, WI 53186

Dear Mr. Sandy,

Enclosed is a wetland delineation report for the Kaltenberg site, Waunakee, Dane County, T 9 N-R 10 E, Section 29. Could you review the report and formally concur or not with the findings.

If you need to field review the site, please let me know and I can meet you on site.

Sincerely,

Alice Thompson Wetland Ecologist

Mie Thompson

1320 Manitowoc Ave. South Milwaukee, WI 53172 414-571-8383 Fax 414-571-8384 thompal@execpc.com

WETLAND DELINEATION REPORT Kaltenberg site, Waunakee, WI

ALICE THOMPSON THOMPSON AND ASSOCIATES WETLAND SERVICES 1320 MANITOWOC AVE SOUTH MILWAUKEE, WI 53172 (414) 571-8383 FAX (414) 571-8384

150-7401

INTRODUCTION:

The property of Kaltenberg was delineated by Alice Thompson of Thompson and Associates Wetland Services at the request of KW Holdings, LLC. The site is located in the County of Dane, Township of Windsor, T 9 N- R 10 E, south 1/2 of Section 29. This delineation was conducted from April 13-17, 2000.

INVESTIGATOR:

Alice L. Thompson is an independent wetland consultant. She obtained a masters degree in biological sciences at the University of Wisconsin-Milwaukee in 1995. Her professional interests include wetland restoration and invasive plant species, especially reed canary grass. Ms. Thompson has satisfactorily completed the Wetland Delineation course offered by the Wisconsin Department of Administration, Coastal Management Program in 1998. She is a member of the Society of Wetland Scientists, and attends the yearly Wisconsin Wetland Scientists Forum.

METHODS:

The delineation was done according to guidelines set by the U.S. Army Corps of Engineers 1987 manual, the Wisconsin Coastal Management Program's "Basic Guide to Wisconsin's Wetlands and their Boundaries", and by the WI Coastal Management Program's voluntary wetland delineation workshop (July 1998). Maps used included the NRCS wetland inventory map, the NRCS County soil maps and NRCS aerial photography. Indicator plant status was determined by the US Fish and Wildlife Service Wisconsin "List of Plant Species That Occur In Wetlands".

Because the site had been extensively farmed, and there was no vegetation on the field, this delineation combined a field inspection with viewing an 11 year NRCS aerial photo slide history. The photos of crops were examined for symptoms of crop stress from too much water, or overly lush growth that would indicate an increase in hydrology in that area.

DESCRIPTION OF SITE:

This 84 acre site is located in Waunakee, WI south of Windsor Road and east of CTH CV. The site is a rolling farmed field. There was no visible vegetation except for a tree in the center of the site. There is an intermittent swale running across the site from the northeast to the southwest where it exits the property towards a known wetland. The NRCS wetland inventory map designates the field as upland. The NRCS has mapped the upland soils as Dodge silt loam (DnB), McHenry silt loam (MdC2), St. Charles silt loam (ScB), Virgil silt loam (VrB), and Plano silt loam (PnB). The swale is mapped as Radford silt loam (RaA), this soil unit contains some wetter soils as hydric inclusions.

RÉSULTS:

The entire field was visually examined for wetland characteristics. There was no indication of wetland characteristics for most of the field. The swale was dry except that a very small area of soil in the swale at the lowest elevation in the SW corner of the field was damp and raised some concern. There were some large rocks on the surface of the field, indicating that topsoil erosion has occurred in the past. A 30 inch soil coring of the swale area revealed numerous layers of soil indicating that erosion and deposition has occurred in the past.

There was no vegetation on the field, however, the vegetation on the unfarmed edges of the field, closest to the swale was dominated by upland plants including foxtails (*Setaria* sp.). The decision was made to review NRCS aerial photos of crop histories to determine if there was any historic wetland hydrology present.

The NRCS aerial slides were viewed from 1989 to 1999 for this field. The principal area of concern was the swale on the south west corner of the site where it crosses the property line to a known wetland. Milt Sperle, Field Assistant for the F. S. A. assisted me in viewing the slides. We examined the photos for signs of crop stress. The following crop history was noted (see attached photos):

1999: uniform crops, no evidence of wetland

1998: slight stress indicated by darker color of vegetation in swale on SW corner.

1997: uniform crops

1996: possible stress on north side of field, no stress in area of swale

1995: uniform crops, no stress 1994: no stress in SW corner

1993: stress across site from SW corner to N side of field

1992: slight stress on W side of field, may be poor weed control

1991: no stress in SW corner, sight stress at N-NE corner

1990: late planting, no crops, can see darker Radford silt loam soils in swale area

1989: no stress

There were two years (1998 and 1993) in eleven where there was some stress at the swale in the area of concern on the southwest corner of the site. This is not sufficient stress to warrant designating the area wetland, because in the majority of years there was no indication of crop failure due to increased hydrology.

All indications from the field, aerial photos, and supporting maps is that the site does not meet the criteria of wetland in any location.

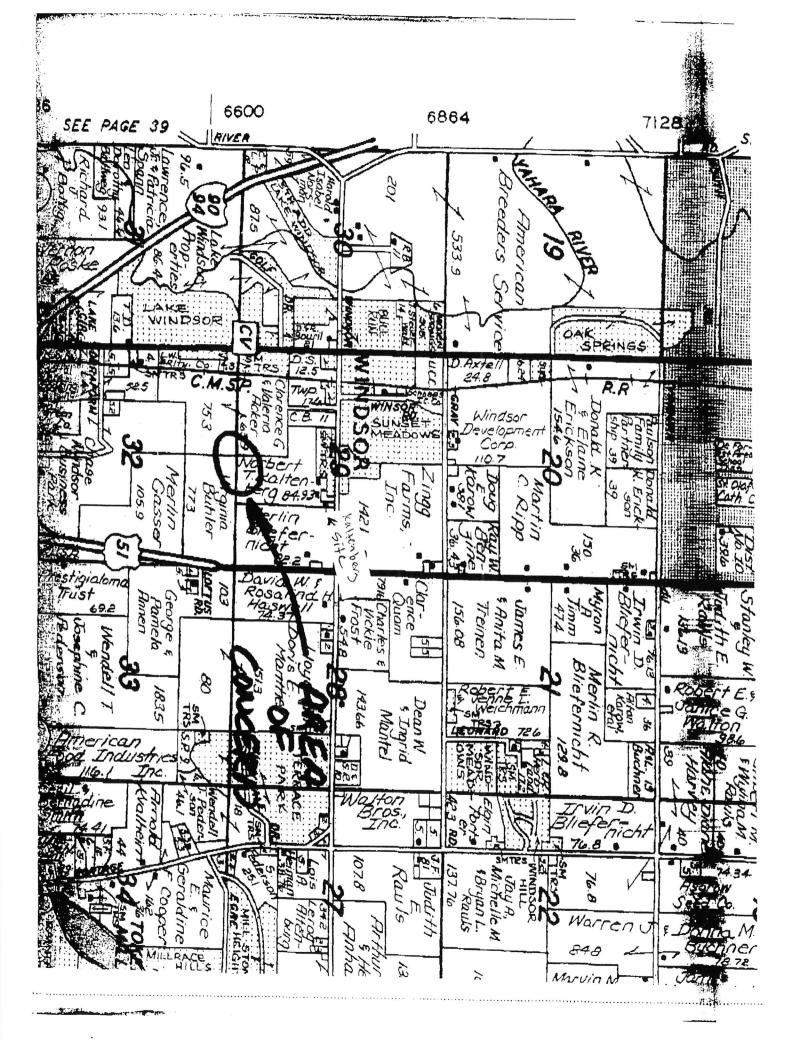
CONCLUSION:

This 84 acre farm field is upland with an intermittent drainage swale running across the site. The entire parcel was reviewed in the field, and on NRCS historic aerial photos and there was no indication of hydrology that would warrant any part of the site being designated as wetland.

This report by Thompson and Associates Wetland Services and the opinions presented are best estimates of the conditions at the time the field was evaluated. The final decision on wetland issues rests with the U.S. Army Corps of Engineers and, in some cases, the Wisconsin Department of Natural Resources, or a local unit of government. It is recommended that the Client obtain concurrence on this delineation report from the U.S. Army Corps of Engineers and the State of Wisconsin Department of Natural Resources before proceeding with any modification or utilization of this property.

APPENDIX:

- 1. Plat map
- 2. NRCS wetland inventory map
- 3. NRCS soils map
- 4. NRCS aerial photos from 1989-1999



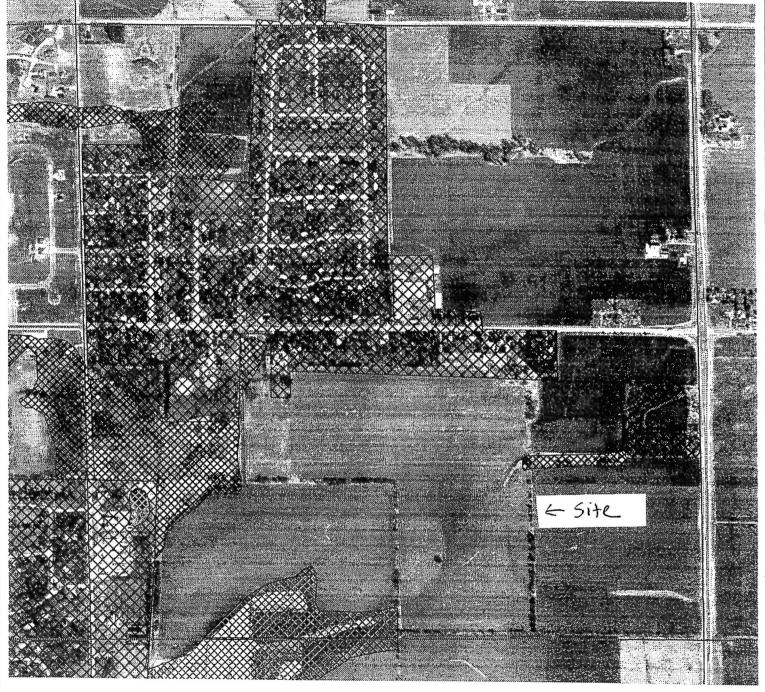
Wetland Correction Map

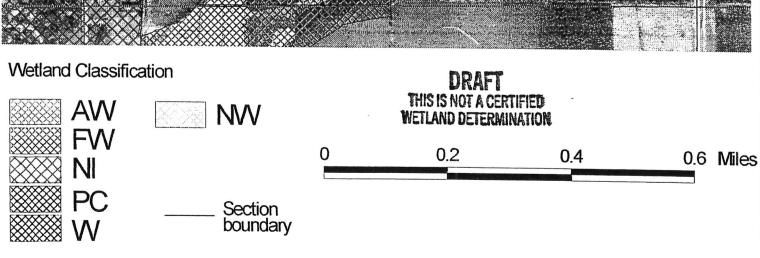
Township: Windsor Twn/Range: T9N R10E

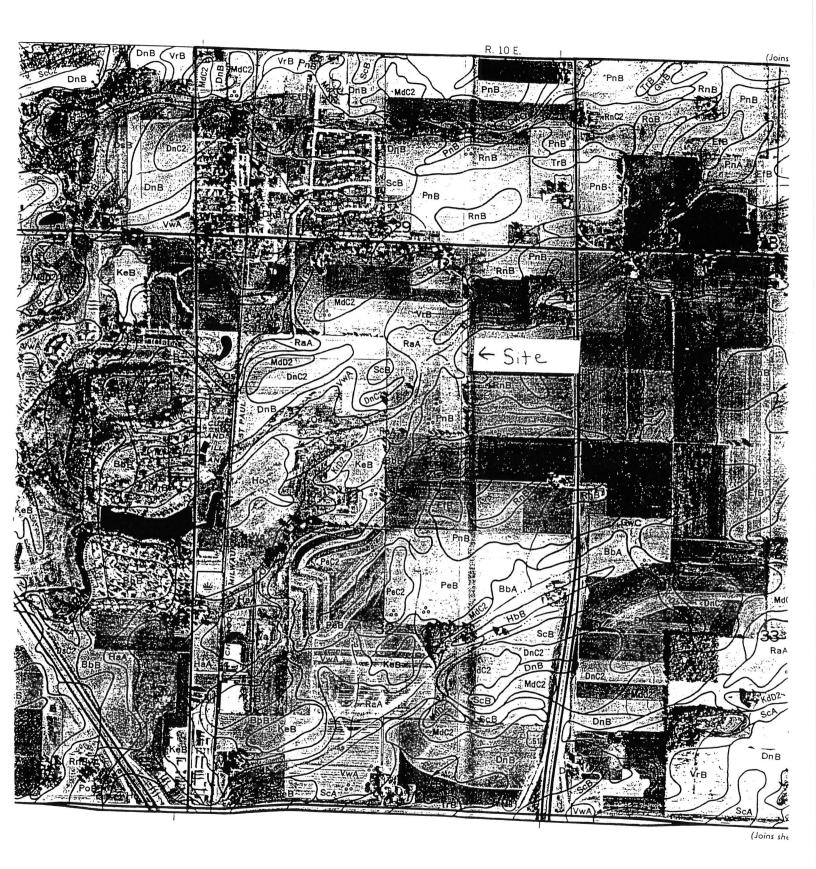
Section: 29

DRAFT - Subject To Change
WETLAND DELINEATIONS ARE FOR POLICE
FOOD SECURITY ACT PURPOSES ONLY

Date Issued: _ 1/17/00

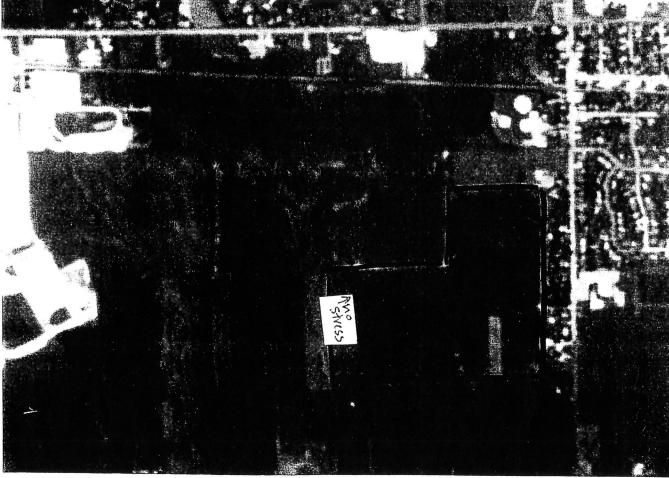


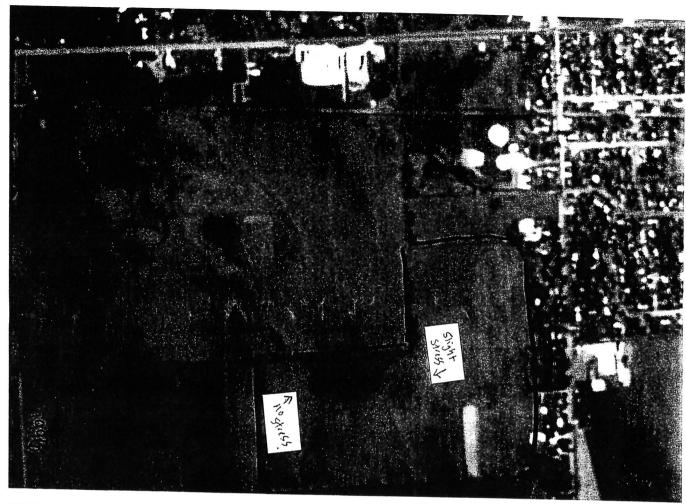


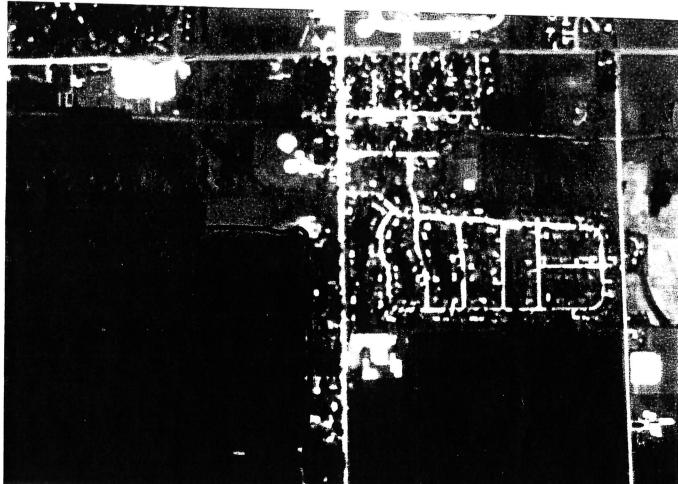


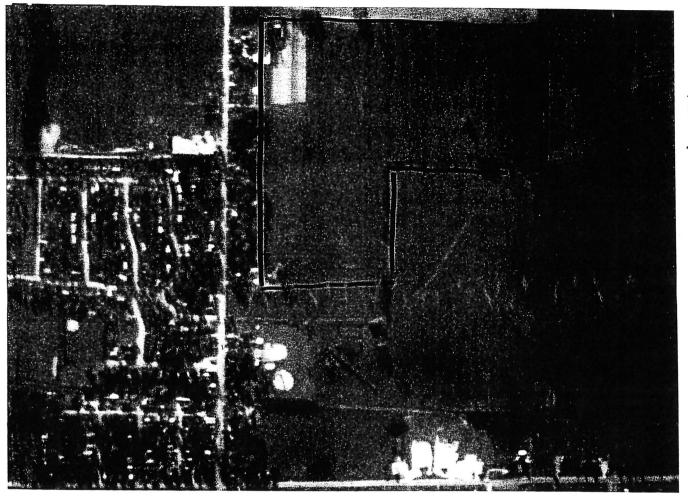


















late planting-darkers soils in area mapped as Radford silt loam.

DEPARIMENT OF THE ARMY



ST. PAUL DISTRICT, CORPS OF ENGINEERS
ARMY CORPS OF ENGINEERS CENTRE

190 FIFTH STREET EAST
ST. PAUL, MN 55101-1638

REPLY TO ATTENTION OF

May 12, 2000

Construction-Operations Regulatory (00-04613-WMS)

Ms. Alice Thompson Thompson and Associates 1320 Manitowoc Avenue South Milwaukee, Wisconsin 53172

Dear Ms. Thompson:

This letter is in regards to your request for a jurisdictional determination on the Kaltenburg property located in S 1/2 of Section 29, T. 9N., R. 10E., Dane County, Wisconsin.

We have completed our review of the submitted wetland delineation report, and are satisfied that the techniques and procedures outlined in the 1987 Wetland Delineation Manual were used. Therefor, we concur with your determination that there are no wetlands present on the 84 acre Kaltenburg site.

If you have any questions, contact Mr. William M. Sande in our Waukesha office at (262) 547-1876. In any correspondence or inquiries, please refer to the file number shown above.

Sincerely,

Char M. Hauger

William Bank

Chief, Regulatory Branch

Copy furnished to:

Mr. Mike Halsted, WDNR, Janesville

Appendix VI: Artificial Wetland Exemption Form

Notice of Project Impacting Artificial Wetlands:

Some wetlands are considered man-made or artificial. Wetlands are delineated based upon the presence of hydrology, hydric soils and wetland plants. A determination of whether an area is an artificial wetland is made by the regulatory agencies. Certain man-induced wetlands that meet the definition of an "Artificial wetland" (a landscape feature where hydrophytic vegetation may be present as a result of human modifications to the landscape or hydrology and for which there is no prior wetland or stream history.) may be exempt from the NR 103 Water Quality Standards. The exempted wetland types are very specific and the applicant must demonstrate that the wetland meets the specific standards outlined in NR 103. If the wetland does not qualify as an exempted type, the NR 103 standards apply and approvals are needed prior to impacting the wetland.

At least 15 days prior to initiating the project, the applicant must provide the following information:

Property Owner:	Agent/Contractor:			
Name				
Signature*				
Telephone				
Mailing Address				
*Signature of land owner required to allow DNR staff a	access to parcel.			
Address of Site Needing Determination (if different)	Location of Site Needing Determination			
	County Town/City/Village			
	- Township Range Section			
	- Tax Key Number			

Please mail this request to: DNR - WRZ Waukesha Service Center 141 Barstow St. Waukesha, WI 53188

The following attachments must be included with this submittal:

- Clear map of site including at least two major roadways and property boundaries, construction site or other helpful landmarks.
- Wetland in question must be clearly marked on map.
- Wetland Delineation Report if not previously sent to DNR
- Soil Map
- NRCS wetland map
- WWI
- Site photos
- Any documentation that this is an artificial wetland

Wetland Type Exemption Information:

- 1.To prove the wetland is a sedimentation and stormwater detention basin or associated conveyance features operated and maintained only for sediment detention and flood storage purpose please provide:
 - a. construction plans
 - b. maintenance plans
 - c. ownership information
 - d. copy of project NOI
 - e. documentation of how artificial wetland connects to storm sewer system
 - f. Copies of work orders, bills, etc for any past maintenance work
 - g. Copies of any flood mapping changes as a result of the pond
- 2. To prove the wetland is an active sewage lagoons, cooling ponds, waste disposal pits, fish rearing ponds and landscape ponds please provide:
 - a. construction plans

- b. maintenance plans
- c. ownership information
- d. copy of chapter 30 permit or other DNR permit issued for pond
- e. documentation of how artificial wetland connects to sewer system
- f. Copies of work orders, bills, etc for any past maintenance work
- g. Copies of any fish stocking permits, fish hatchery licenses, etc.
- 3. To prove the wetland is an actively maintained farm drainage and roadside ditches please provide:
 - a. tiling/drainage plans
 - b. NRCS farm plan
 - c. Copies of work orders, bills, etc for any past maintenance work
 - d. Aerial photo documenting agricultural or roadway use
- 4. To prove the wetland is an artificial wetlands within active nonmetallic mining operations please provide:
 - a. construction plans
 - b. maintenance plans
 - c. ownership information
 - d. copy of chapter 30 permit or other DNR permit issued for ponds
 - e. Copies of work orders, bills, etc for any past maintenance work

If there is not adequate documentation that the wetland meets one of these types, it is not exempt from NR 103 regardless of whether notification is sent.

Even if the wetland type meets one of the exemptions, if the wetland provides significant functional values or uses for the following, DNR may assert NR 103 jurisdiction:

- 1. Habitat for aquatic organisms in the food web including, but not limited to fish, crustaceans, mollusks, insects, annelids, planktonic organisms and the plants and animals upon which these aquatic organisms feed and depend upon for their needs in all life stages;
- 2. Habitat for resident and transient wildlife species, including mammals, birds, reptiles and amphibians for breeding, resting, nesting, escape cover, travel corridors and food; and
- 3.Recreational, cultural, educational, scientific and natural scenic beauty values and uses.

DNR staff will notify property owner within 15 days of receipt of this letter if the wetland is one of the listed types but not exempt due to significant habitat uses or values.

Date letter maile	ed to DNR	
Date letter recei	ved by DNR staff	
	f wetland type (DNR circle one) lagoon agricultural/roadway non-mo	etallic mining
	f significant habitat value (DNR circle as ms wildlife species recreat	
	f NR 103 exemption: Not exempt due to type	_ Not exempt due to value
Dated	by Water Management S	pecialist